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# The MIT Press





Front and inside front cover: Images from *Snapshot Photography* by Catherine Zuromskis. Courtesy of the author.

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memoir

## Breaking Out

An Indian Woman's American Journey

**Padma Desai**

Padma Desai grew up in the 1930s in the provincial world of Surat, India, where she had a sheltered and strict upbringing in a traditional Gujarati Anavil Brahmin family. Her academic brilliance won her a scholarship to Bombay University, where the first heady taste of freedom in the big city led to tragic consequences—seduction by a fellow student whom she was then compelled to marry. In a failed attempt to end this disastrous first marriage, she converted to Christianity.

A scholarship to America in 1955 launched her on her long journey to liberation from the burdens and constraints of her life in India. With a growing self-awareness and transformation at many levels, she made a new life for herself, met and married the celebrated economist Jagdish Bhagwati, became a mother, and rose to academic eminence at Harvard and Columbia.

How did she navigate the tumultuous road to assimilation in American society and culture? And what did she retain of her Indian upbringing in the process? This brave and moving memoir—written with a novelist's skill at evoking personalities, places, and atmosphere, and a scholar's insights into culture and society, community, and family—tells a compelling and thought-provoking human story that will resonate with readers everywhere.

**Padma Desai** is the Gladys and Roland Harriman Professor of Comparative Economic Systems and director of the Center for Transition Economies at Columbia University. A leading scholar of the Russian economy, she is the author of *Conversations on Russia: Reform from Yeltsin to Putin*, which was the *Financial Times* Pick of the Year in 2007, and coauthor of *Work Without Wages: Russia's Non-Payment Crisis* (MIT Press). Her most recent book, on the current economic crisis, is *From Financial Crisis to Global Recovery*.

"A fascinating and inspiring narrative, revealing both the personal and professional struggles and triumphs of an extraordinary woman."

—**Wendy Doniger**, author of *The Hindus: An Alternative History*

"Deeply felt, yet unsentimental. . . . Places an individual life in the context of the worlds it has travelled with a gripping and relentless honesty."

—**Gayatri Chakravorty Spivak**, 2012 Kyoto Prize recipient

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*The New Republic*, *Foreign Affairs*, *Foreign Policy*,  
*American Economic Review*, *Indian Economic Review*,  
*Indian Journal of Gender Studies*
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**The brave and moving memoir of a woman's journey of transformation: from a sheltered Indian upbringing to success and academic eminence in America.**

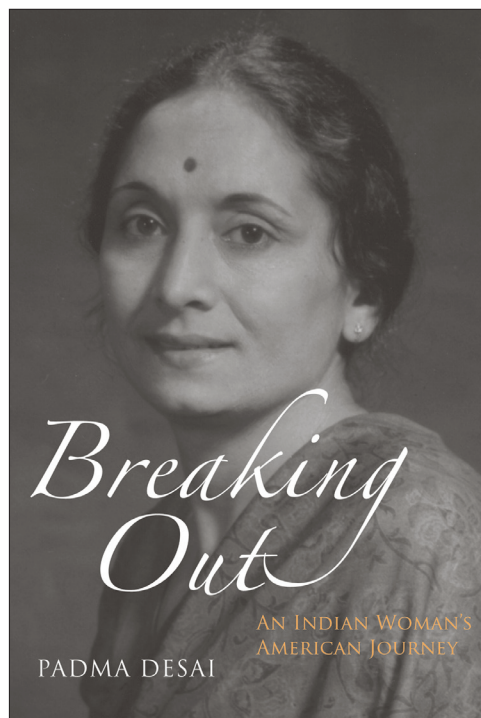
October  
5 3/8 x 8, 264 pp.  
29 illus.

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Indian Subcontinent

*Also available*

**Work Without Wages**  
Russia's Non-Payment Crisis  
**Padma Desai and Todd Idson**  
2001, 978-0-262-04184-3  
\$38.00S cloth



current affairs/business/history

## Made in the USA

### The Rise and Retreat of American Manufacturing

Vaclav Smil

"There is probably no other writer whose books I anticipate with more enthusiasm than Vaclav Smil. He brings remarkable insight to every topic he examines, combining his vast knowledge of science and energy, history and business to address some of the most pressing issues we face today. So I'm pleased he will be turning that keen intellect to the subject of manufacturing in the U.S."

—Bill Gates

In *Made in the USA*, Vaclav Smil powerfully rebuts the notion that manufacturing is a relic of predigital history and that the loss of American manufacturing is a desirable evolutionary step toward a pure service economy. Smil argues that no advanced economy can prosper without a strong, innovative manufacturing sector and the jobs it creates. Reversing a famous information economy dictum, Smil argues that serving potato chips is not as good as making microchips.

The history of manufacturing in America, Smil tells us, is a story of nation-building. He explains how manufacturing became a fundamental force behind America's economic, strategic, and social dominance. He describes American manufacturing's rapid rise at the end of the nineteenth century, its consolidation and modernization between the two world wars, its role as an enabler of mass consumption after 1945, and its recent decline. Some economists argue that shipping low-value jobs overseas matters little because the high-value work remains in the United States. But, asks Smil, do we want a society that consists of a small population of workers doing high-value-added work and masses of unemployed?

Will America act to preserve and reinvigorate its manufacturing? It is crucial to our social and economic well-being; but, Smil warns, the odds are no better than even.

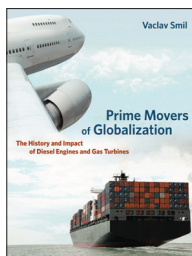
**Vaclav Smil** is the author of more than thirty books on energy, environment, food, and history of technical advances.

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An argument that America's economy needs a strong and innovative manufacturing sector and the jobs it creates.

September  
6 x 9, 272 pp.  
14 illus.

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innovation/business

## Making in America

From Innovation to Market

**Suzanne Berger**

with the MIT Task Force on Production  
in the Innovation Economy

America is the world leader in innovation, but many of the innovative ideas that are hatched in American start-ups, labs, and companies end up going abroad to reach commercial scale. Apple, the superstar of innovation, locates its production in China (yet still reaps most of its profits in the United States). When innovation does not find the capital, skills, and expertise it needs to come to market in the United States, what does it mean for economic growth and job creation? Inspired by the MIT Made in America project of the 1980s, *Making in America* brings experts from across MIT to focus on a critical problem for the country.

MIT scientists, engineers, social scientists, and management experts visited more than 250 firms in the United States, Germany, and China. In companies across America—from big defense contractors to small machine shops and new technology start-ups—these experts tried to learn how we can rebuild the industrial landscape to sustain an innovative economy. At each stop, they asked this basic question: “When you have a new idea, how do you get it into the market?” They found gaping holes and missing pieces in the industrial ecosystem. Critical strengths and capabilities that once helped bring new enterprises to life have disappeared: production capacity; small and medium-size suppliers; spillovers of research, training, and new technology from big corporations. (*Production in the Innovation Economy*, also published by the MIT Press in 2013, describes this research.)

Even in an Internet-connected world, proximity to innovation and users matters for industry. *Making in America* describes ways to strengthen this connection, including public-private collaborations, new government-initiated manufacturing innovation institutes, and industry-community college projects. If we can learn from these ongoing experiments in linking innovation to production, American manufacturing could have a renaissance.

**Suzanne Berger** is Raphael Dorman-Helen Starbuck Professor of Political Science and together with Institute Professor Phillip Sharp chairs MIT’s Production in the Innovation Economy project. She is the author of *How We Compete: What Companies Around the World Are Doing to Make It in the Global Economy* and other books.

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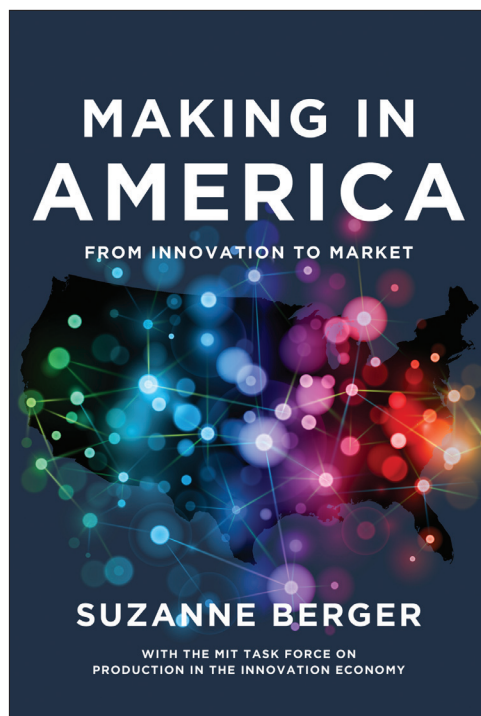
**How America can  
rebuild its industrial  
landscape to sustain an  
innovative economy.**

September  
6 x 9, 256 pp.

**\$24.95T/£17.95 cloth**  
978-0-262-01991-0

*Also available*

**Production in the  
Innovation Economy**  
edited by Richard M. Locke  
and Rachel L. Wellhausen  
2013, 978-0-262-01992-7  
\$35.00S/£24.95 cloth



photography/China studies

## China's Vanishing Worlds

Countryside, Traditions, and Cultural Spaces

Matthias Messmer and Hsin-Mei Chuang

Just a few kilometers from the glittering skylines of Shanghai and Beijing, we encounter a vast countryside, an often forgotten and seemingly limitless landscape stretching far beyond the outskirts of the cities. Following traces of old trade routes, once-flourishing marketplaces, abandoned country estates, decrepit model villages, and the sites of mystic rituals, the authors of this book spent seven years exploring, photographing, and observing the vast interior of China, where the majority of Chinese people live in ways virtually unchanged for centuries.

*China's Vanishing Worlds* is an impressive documentation in images and text of modernization's effect on traditional ways of life, and a sympathetic portrait of lives burdened by hardship but blessed by simplicity and tranquility. The scars of China's recent history and the decay of centuries-old traditions are made visible in this volume, but so is the lure and promise of technology and another life for young people. In the next twenty years, an estimated 280 million Chinese villagers will become city dwellers, leaving their ancestral homes in search of urban jobs and opportunities.

In striking and evocative color photographs, we see picturesque villages set against a background of rolling hills, planned centuries ago according to the principles of feng shui; a restaurant with bright pink resin chairs and a wide-screen television; traditional buildings preserved by the accident of poverty and isolation; ramshackle rooms decorated with portraits of Chairman Mao; backpack-wearing children walking to school; festivals with elaborately costumed performers; old men playing cards; buyers and sellers at open-air markets.

*China's Vanishing Worlds* offers readers a rare opportunity to glimpse China as it once was, and as it will soon no longer be.

**Matthias Messmer**, born in Switzerland, is the author of *Jewish Wayfarers in Modern China*. His work focuses on Chinese cultural politics, pop culture, and Western images of China. **Hsin-Mei Chuang**, born in Taiwan, is a researcher, cultural manager, and writer.

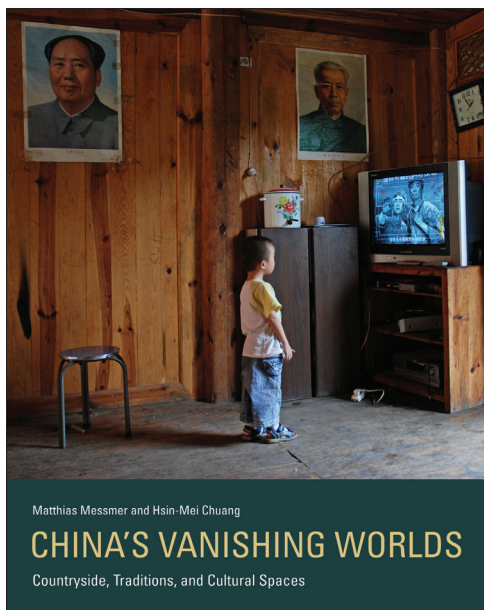
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Photographs and text document disappearing cultural landscapes and lifestyles in rural China, capturing melancholy scenes far from Beijing or Shanghai.

September  
9 1/2 x 11 3/4, 334 pp.  
1000+ color illus.,  
80+ black & white illus.

**\$60.00T/£41.95 cloth**  
978-0-262-01986-6

Not for sale in the UK  
and Europe



economics/China studies

## Wu Jinglian

Voice of Reform in China

edited with introductions by Barry Naughton

For more than thirty years, Wu Jinglian has been widely regarded as China's most celebrated and influential economist. In the late 1970s, Wu (b. 1930) was one of a small group of economic thinkers who broke with Marxist concepts and learned the principles of a market economy. Since then he has been at the center of economic reform in China, moving seamlessly as an "insider outsider" between academic and policy roles. In recent years, Wu has emerged as a prominent public intellectual fighting not just for market reform but also for a democratic society backed by the rule of law. This book presents many of Wu's most important writings, a number of them appearing in English for the first time. Each section offers an informative introductory essay by Barry Naughton, the volume's editor and an expert on China's economy.

The book begins with Wu's most recent articles, which make clear his belief that gradual marketization combined with institutional development will make Chinese society fairer and less corrupt. Biographical writings follow, accompanied by a richly insightful text by Naughton on Wu's life and career. Writings from the 1980s and 1990s, written originally for a small audience of policy makers, demonstrate how Wu shaped China's early reform path; essays and articles from the late 1990s and early 2000s reflect Wu's new role as an advocate for broader reforms. Taken together, these texts map not only China's path to economic reform but also Wu's own intellectual evolution.

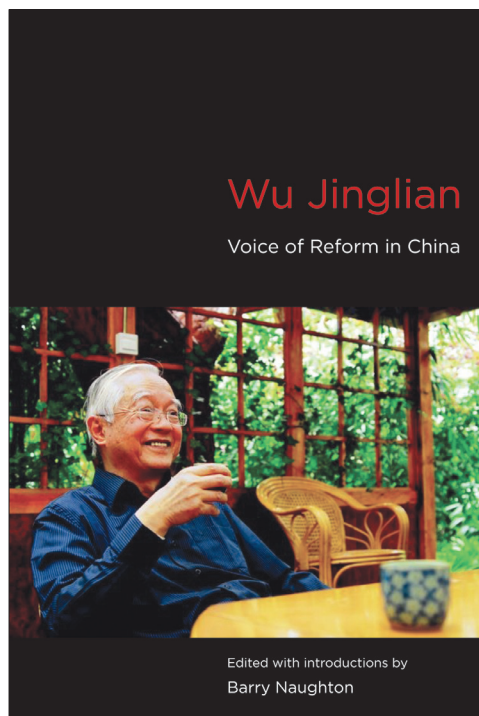
**Barry Naughton**, an economist, is Professor and Sokwanlok Chair at the Graduate School of International Relations and Pacific Studies at the University of California, San Diego. He is the author of *Growing Out of the Plan: Chinese Economic Reform, 1978–1993* and *The Chinese Economy: Transitions and Growth* (MIT Press). **Wu Jinglian**, one of the principal architects of China's economic reform, worked in the Institute of Economics of the Chinese Academy of Social Sciences, and the State Council Development Research Center in China. He has held positions at Oxford, Stanford, Yale, and MIT.

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Writings by Wu Jinglian map not only China's path to economic reform but also the intellectual evolution of China's most influential economist.

September  
6 x 9, 392 pp.

**\$29.95T/£20.95 cloth**  
978-0-262-01943-9



photography

## Why Photography Matters

Jerry L. Thompson

Photography matters, writes Jerry Thompson, because of how it works—not only as an artistic medium but also as a way of knowing. It matters because how we understand what photography is and how it works tell us something about how we understand anything. With these provocative observations, Thompson begins a wide-ranging and lucid meditation on why photography is unique among the picture-making arts.

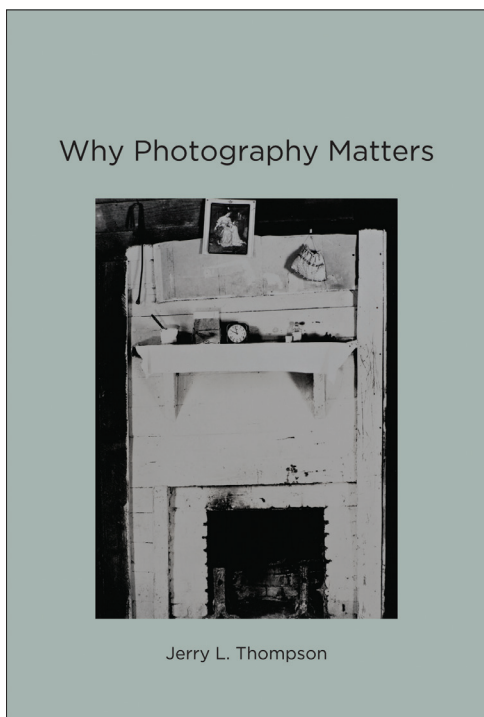
Thompson, a working photographer for forty years, constructs an argument that moves with natural logic from Thomas Pynchon (and why we read him for his vision and not his command of miscellaneous facts) to Jonathan Swift to Plato to Emily Dickinson (who wrote “Tell all the Truth but tell it slant”) to detailed readings of photographs by Eugène Atget, Garry Winogrand, Marcia Due, Walker Evans, and Robert Frank. He questions Susan Sontag’s assertion in *On Photography* that “nobody” can any longer imagine literate, authoritative, or transcendent photographs. He considers the money-fueled expansion of the market for photography, and he compares ambitious “meant-for-the-wall” photographs with smaller, quieter works. Forcefully and persuasively, Thompson argues for photography as a medium concerned with understanding the world we live in—a medium whose business is not constructing fantasies pleasing to the eye or imagination but describing the world in the toughest and deepest way.

**Jerry L. Thompson** is a working photographer who also writes about photography. He worked as Walker Evans’s principal assistant from 1973 to Evans’s death in 1975. He is the author of *The Last Years of Walker Evans* and *Truth and Photography*.

A lucid and wide-ranging meditation on why photography is unique among the picture-making arts.

September  
5 3/8 x 8, 104 pp.  
7 illus.

**\$14.95T/£10.95 cloth**  
978-0-262-01928-6



“How photographs work is the challenging subject of Jerry Thompson’s radiant new book. Once considered revolutionary in their illumination of the world, photographs have long since been reconceived as prestigious aesthetic objects. Against this turn Thompson argues reflectively and philosophically for a restored sense of need and purpose. The book offers a stunning recovery of the original *raison d’être* of camera work as revelation and knowledge.”

—**Alan Trachtenberg, Professor Emeritus of English and American Studies, Yale University; and author of *Reading American Photographs* and other books**

“It would be hard to imagine a more effective and refreshing demonstration of why photography matters than Jerry Thompson’s book of that title.”

—**Joe Sachs, translator of *Plato’s Republic* and *Aristotle’s Physics***

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photography

## Snapshot Photography

The Lives of Images

Catherine Zuromskis

Snapshots capture everyday occasions. Taken by amateur photographers with simple point-and-shoot cameras, snapshots often commemorate something that is private and personal; yet they also reflect widely held cultural conventions. The poses may be formulaic, but a photograph of loved ones can evoke a deep affective response. In *Snapshot Photography*, Catherine Zuromskis examines the development of a form of visual expression that is both public and private.

Scholars of art and culture tend to discount snapshot photography; it is too ubiquitous, too unremarkable, too personal. Zuromskis argues for its significance. Snapshot photographers, she contends, are not so much creating spontaneous records of their lives as they are participating in a prescriptive cultural ritual. A snapshot is not only a record of interpersonal intimacy but also a means of linking private symbols of domestic harmony to public ideas of social conformity.

Through a series of case studies, Zuromskis explores the social life of snapshot photography in the United States in the latter half of the twentieth century. She examines the treatment of snapshot photography in the 2002 film *One Hour Photo* and in the television crime drama *Law and Order: Special Victims Unit*; the growing interest of collectors and museum curators in “vintage” snapshots; and the “snapshot aesthetic” of Andy Warhol and Nan Goldin. She finds that Warhol’s photographs of the Factory community and Goldin’s intense and intimate photographs of friends and family use the conventions of the snapshot to celebrate an alternate version of “family values.”

In today’s digital age, snapshot photography has become even more ubiquitous and ephemeral—and, significantly, more public. But buried within snapshot photography’s mythic construction, Zuromskis argues, is a site of democratic possibility.

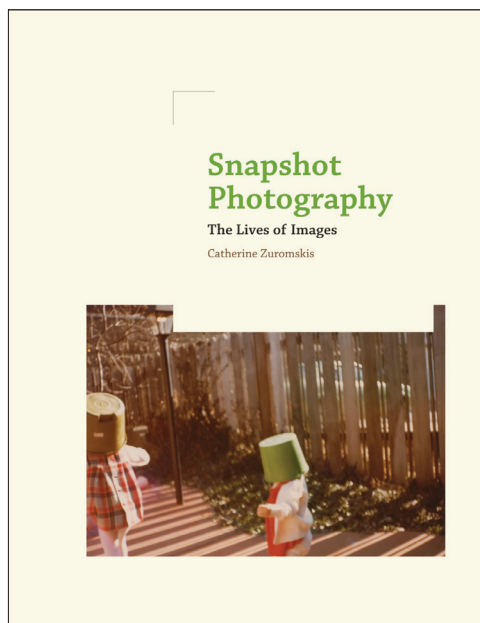
**Catherine Zuromskis** is Assistant Professor in the Department of Art and Art History at the University of New Mexico.

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**An examination of the contradictions within a form of expression that is both public and private, specific and abstract, conventional and countercultural.**

October  
7 x 9, 368 pp.  
77 illus.

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978-0-262-01929-3



## Lonely Ideas

Can Russia Compete?

Loren Graham

When have you gone into an electronics store, picked up a desirable gadget, and found that it was labeled “Made in Russia”? Probably never. Russia, despite its epic intellectual achievements in music, literature, art, and pure science, is a negligible presence in world technology. Despite its current leaders’ ambitions to create a knowledge economy, Russia is economically dependent on gas and oil. In *Lonely Ideas*, Loren Graham investigates Russia’s long history of technological invention followed by failure to commercialize and implement.

For three centuries, Graham shows, Russia has been adept at developing technical ideas but abysmal at benefiting from them. From the seveneenth-century arms industry through twentieth-century Nobel-awarded work in lasers, Russia has failed to sustain its technological inventiveness. Graham identifies a range of conditions that nurture technological innovation: a society that values inventiveness and practicality; an economic system that provides investment opportunities; a legal system that protects intellectual property; a political system that encourages innovation and success. Graham finds Russia lacking on all counts. He explains that Russia’s failure to sustain technology, and its recurrent attempts to force modernization, reflect its political and social evolution and even its resistance to democratic principles.

But Graham points to new connections between Western companies and Russian researchers, new research institutions, a national focus on nanotechnology, and the establishment of Skolkovo, “a new technology city.” Today, he argues, Russia has the best chance in its history to break its pattern of technological failure.

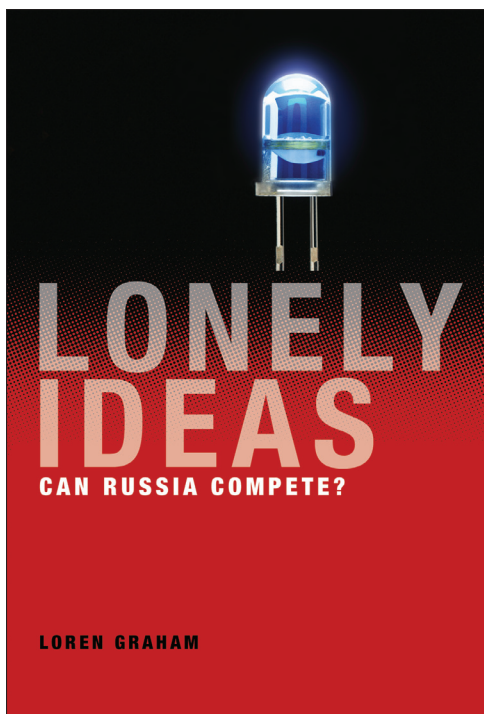
**Loren Graham**, often described as the leading scholar on Russian science and technology outside that country, is the author of *The Ghost of the Executed Engineer* and other books. He is Professor Emeritus of the History of Science at MIT and Research Scholar at the Davis Center for Russia and Eurasian Studies at Harvard.

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An expert investigates  
Russia’s long history  
of technological invention  
followed by commercial  
failure and points to  
new opportunities to  
break the pattern.

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6 x 9, 224 pp.  
7 color illus.,  
12 black & white illus.

**\$27.95T/£19.95 cloth**  
978-0-262-01979-8



business/management/labor studies

## Worker Leadership

America's Secret Weapon in the Battle for Industrial Competitiveness

**Fred Stahl**

foreword by Joel Cutcher-Gershenfeld

How can American manufacturing recapture its former dominance in the globalized industrial economy? In *Worker Leadership*, Fred Stahl proposes a strategy to boost enterprise productivity and restore America's industrial power. Stahl outlines a revolutionary transformation of industrial culture that offers workers real control of production operations and manufacturing processes (as well as a monetary share of the savings from productivity gains). Stahl develops this new Theory of Worker Productivity into a strategy of Worker Leadership, with concrete, real-world examples.

Combining some of the methods of lean manufacturing made famous by Toyota with genuine worker empowerment unlike anything at Toyota, Worker Leadership creates highly productive jobs loaded with responsibility and authority. Workers, Stahl writes, love these jobs precisely because of the opportunities to be creative and productive. Worker Leadership also offers important benefits for organized labor. It promotes the vitality and growth of labor unions through a shared responsibility with management for growth and profitability.

Stahl's approach was inspired by changes implemented at John Deere Harvester Works by a general manager named Dick Kleine. Stahl uses the story of Kleine's transformation of the Deere factories to construct a checklist of essential conditions for Worker Leadership. He also discusses competition with China and South Korea and tells the story of a factory that GE recently "reshored" from China to the United States, considers the potential for applying Worker Leadership beyond manufacturing, provides a brief history of manufacturing, and even reveals the dark side of Toyota's system that opens another opportunity for America.

*Worker Leadership* offers a blueprint for global competitive advantage that should be read by anyone concerned about America's current productivity paralysis.

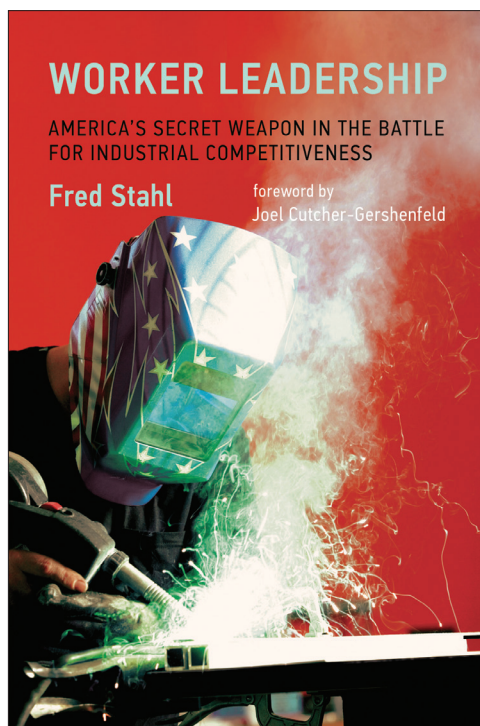
**Fred Stahl** is a former Boeing Company executive, a founder of MIT's Lean Aircraft Initiative, and a coauthor of *Lean Enterprise Value: Insights from MIT's Lean Aerospace Initiative*.

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**How to increase both job satisfaction and enterprise productivity—and make American manufacturing competitive again.**

October  
6 x 9, 256 pp.  
25 illus.

**\$29.95/£20.95 cloth**  
978-0-262-01963-7



design

## Speculative Everything

Design, Fiction, and Social Dreaming

Anthony Dunne and Fiona Raby

Today designers often focus on making technology easy to use, sexy, and consumable. In *Speculative Everything*, Anthony Dunne and Fiona Raby propose a kind of design that is used as a tool to create not only things but ideas. For them, design is a means of speculating about how things could be—to imagine possible futures. This is not the usual sort of predicting or forecasting, spotting trends and extrapolating; these kinds of predictions have been proven wrong, again and again. Instead, Dunne and Raby pose “what if” questions that are intended to open debate and discussion about the kind of future people want (and do not want).

*Speculative Everything* offers a tour through an emerging cultural landscape of design ideas, ideals, and approaches. Dunne and Raby cite examples from their own design and teaching and from other projects from fine art, design, architecture, cinema, and photography. They also draw on futurology, political theory, the philosophy of technology, and literary fiction. They show us, for example, ideas for a solar kitchen restaurant; a flypaper robotic clock; a menstruation machine; a cloud-seeding truck; a phantom-limb sensation recorder; and devices for food foraging that use the tools of synthetic biology. Dunne and Raby contend that if we speculate more—about everything—reality will become more malleable. The ideas freed by speculative design increase the odds of achieving desirable futures.

**Anthony Dunne** is Professor and Head of the Design Interactions Programme at the Royal College of Art. He is the author of *Hertzian Tales: Electronic Products, Aesthetic Experience, and Critical Design* (MIT Press).

**Fiona Raby** is Professor of Industrial Design at the University of Applied Arts, Vienna, and Reader in Design Interactions at the Royal College of Art. They are partners in the design studio Dunne & Raby.

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*Harvard Design Magazine, Design and Culture, Design Issues, Innovation, Metropolis, Bookforum, New York Review of Books, Times Literary Supplement, Grey Room*
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How to use design as a tool to create not only things but ideas, to speculate about possible futures.

October  
7 x 9, 336 pp.  
143 color illus.

\$27.95T/£19.95 cloth  
978-0-262-01984-2

Also available

### Hertzian Tales

Electronic Products, Aesthetic Experience, and Critical Design

Anthony Dunne

2008, 978-0-262-54199-2  
\$19.95T/£13.95 paper

### NONOBJECT

Branko Lukić and Barry M. Katz

2010, 978-0-262-01484-7  
\$29.95T/£20.95 cloth



architecture

## Architect?

A Candid Guide to the Profession

Third Edition

Roger K. Lewis

Since 1985, *Architect?* has been an essential text for aspiring architects, offering the best basic guide to the profession available. This third edition has been substantially revised and rewritten, with new material covering the latest developments in architectural and construction technologies, digital methodologies, new areas of focus in teaching and practice, evolving aesthetic philosophies, sustainability and green architecture, and alternatives to traditional practice.

*Architect?* tells the inside story of architectural education and practice; it is realistic, unvarnished, and insightful. Chapter 1 asks “Why Be an Architect?” and chapter 2 offers reasons “Why Not to Be an Architect.” After this provocative beginning, *Architect?* goes on to explain and critique architectural education, covering admission, degree and curriculum types, and workload as well as such post-degree options as internship, teaching, and work in related fields. It offers a detailed discussion of professors and practitioners and the “-isms” and “-ologies” most prevalent in teaching and practicing architecture. It explains how an architect works and gets work, and describes architectural services from initial client contact to construction oversight. The new edition also includes a generous selection of drawings and cartoons from the author’s *Washington Post* column, “Shaping the City,” offering teachable moments wittily in graphic form.

The author, Roger Lewis, has taught, practiced, and written extensively about architecture for many years. In *Architect?* he explains—for students, professors, practitioners, and even prospective clients—how architects think and work and what they care about as they strive to make the built environment more commodious, more beautiful, and more sustainable.

**Roger K. Lewis** is a practicing architect and planner, Professor Emeritus of Architecture at the University of Maryland, and a columnist for the *Washington Post*.

### Praise for previous editions

“Required reading for would-be architects, it’s also of value for those who teach them.”

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“This is a terrific book for anyone thinking about a career in architecture. It’s very useful and valuable.”

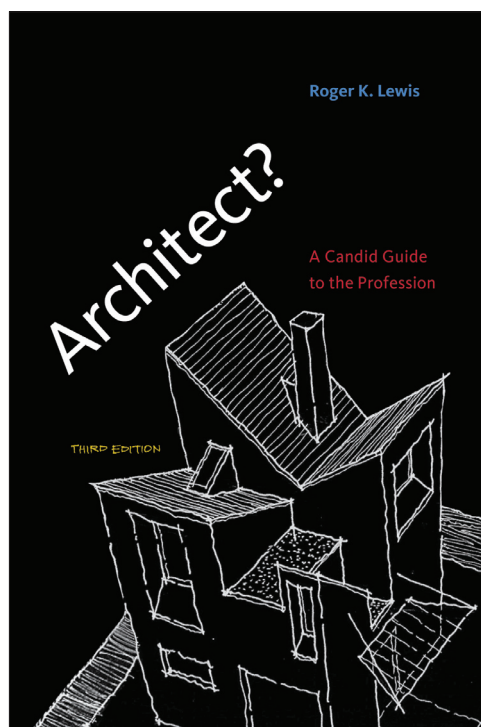
—Richard Meier, Richard Meier & Partners

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The new edition of an essential text offers an informative, engaging view of the architectural profession from education through practice.

September  
6 x 9, 352 pp.  
94 illus.

**\$27.95T/£19.95 paper**  
978-0-262-51884-0



economics/political science

## Dynamics among Nations

The Evolution of Legitimacy and Development in Modern States

Hilton L. Root

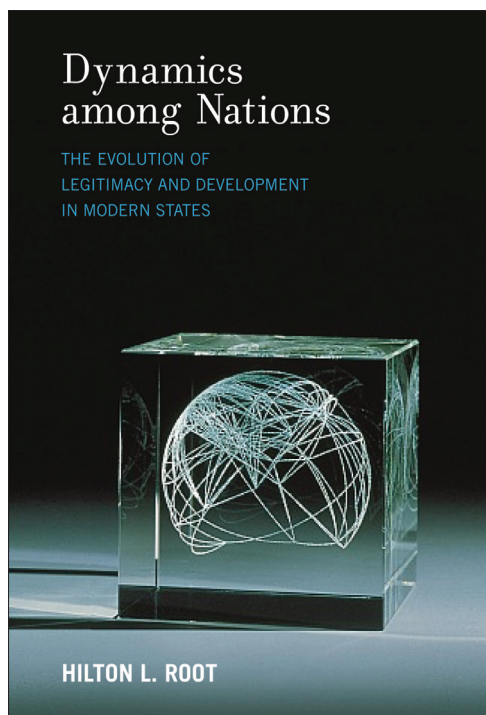
Liberal internationalism has been the West's foreign policy agenda since the Cold War, and the West has long occupied the top rung of a hierarchical system. In this book, Hilton Root argues that international relations, like other complex ecosystems, exists in a constantly shifting landscape, in which hierarchical structures are giving way to systems of networked interdependence, changing every facet of global interaction. Accordingly, policymakers will need a new way to understand the process of change. Root suggests that the science of complex systems offers an analytical framework to explain the unforeseen development failures, governance trends, and alliance shifts in today's global political economy.

Root examines both the networked systems that make up modern states and the larger, interdependent landscapes they share. Using systems analysis—in which institutional change and economic development are understood as self-organizing complexities—he offers an alternative view of institutional resilience and persistence. From this perspective, Root considers the divergence of East and West; the emergence of the European state, its contrast with the rise of China, and the network properties of their respective innovation systems; the trajectory of democracy in developing regions; and the systemic impact of China on the liberal world order. Complexity science, Root argues, will not explain historical change processes with algorithmic precision, but it may offer explanations that match the messy richness of those processes.

An innovative view of the changing geopolitical landscape that draws on the science of complex adaptive systems to understand changes in global interaction.

November  
6 x 9, 320 pp.

\$29.95T/£20.95 cloth  
978-0-262-01970-5



**Hilton L. Root**, an expert on international political economy and development, is Professor at the George Mason University School of Public Policy. He is the author of *Alliance Curse: How the U.S. Lost the Third World*, *Capital and Collusion: Political Logic of Global Economic Development*, and other books.

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environment/higher education

## Sustainability in Higher Education

Stories and Strategies for Transformation

edited by Peggy F. Barlett and Geoffrey W. Chase

In colleges and universities across the United States, students, faculty, and staff are forging new paths to sustainability. From private liberal arts colleges to major research institutions to community colleges, sustainability concerns are being integrated into curricula, policies, and programs. New divisions, degree programs, and courses of study cross traditional disciplinary boundaries; Sustainability Councils become part of campus governance; and new sustainability issues link to historic social and educational missions. In this book, leaders from twenty-four colleges and universities offer their stories of institutional and personal transformation.

These stories document both the power of leadership—whether by college presidents, faculty, staff, or student activists—and the potential for institutions to redefine themselves. Chapters recount, among other things, how inclusive campus governance helped mobilize students at the University of South Carolina; how a course at the Menominee Nation's tribal college linked sustainability and traditional knowledge; how the president of Furman University convinced a conservative campus community to make sustainability a strategic priority; how students at San Diego State University built sustainability into future governance while financing a LEED platinum-certified student center; and how sustainability transformed pedagogy in a lecture class at Penn State. As this book makes clear, there are many paths to sustainability in higher education. These stories offer a snapshot of what has been accomplished and a roadmap to what is possible.

**Peggy F. Barlett** is Goodrich C. White Professor of Anthropology at Emory University. **Geoffrey W. Chase** is Dean of Undergraduate Studies at San Diego State University. Barlett and Chase are coeditors of *Sustainability on Campus: Stories and Strategies for Change* (MIT Press).

### Colleges and Universities covered include

Arizona State University • Central College, Iowa • College of the Menominee Nation, Wisconsin • Curriculum for the Bio-region Project, Pacific Northwest • Drury University, Missouri • Emory University, Georgia • Florida A&M University • Furman University, South Carolina • Green Mountain College, Vermont • Kap'olani Community College, Honolulu, Hawaii • Pennsylvania State University • San Diego State University • Santa Clara University, California • Slippery Rock State University, Pennsylvania • Spelman College, Georgia • Unity College, Maine • University of Hawaii—Manoa • University of Michigan • University of South Carolina • University of South Florida • University of Wisconsin—Oshkosh • Warren Wilson College, North Carolina • Yale University

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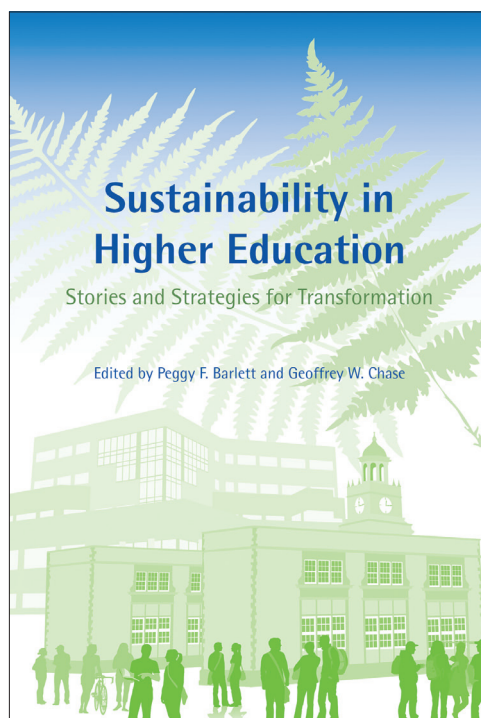
**Campus leaders describe how community colleges, publicly funded universities, and private liberal arts colleges across America are integrating sustainability into curriculum, policies, and programs.**

September  
6 x 9, 344 pp.  
3 illus.

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Urban and Industrial  
Environments series



## The Future Is Not What It Used to Be

Climate Change and Energy Scarcity

Jörg Friedrichs

The future is not what it used to be because we can no longer rely on the comforting assumption that it will resemble the past. Past abundance of fuel, for example, does not imply unending abundance. Infinite growth on a finite planet is not possible.

In this book, Jörg Friedrichs argues that industrial society itself is transitory, and he examines the prospects for our civilization's coming to terms with its two most imminent choke points: climate change and energy scarcity. He offers a thorough and accessible account of these two challenges as well as the linkages between them.

Friedrichs contends that industrial civilization cannot outlast our ability to burn fossil fuels and that the demise of industrial society would entail cataclysmic change, including population decreases. To understand the social and political implications, he examines historical cases of climate stress and energy scarcity: devastating droughts in the ancient Near East; the Little Ice Age in the medieval Far North; the Japanese struggle to prevent "fuel starvation" from 1918 to 1945; the "totalitarian retrenchment" of the North Korean governing class after the end of Soviet oil deliveries; and Cuba's socioeconomic adaptation to fuel scarcity in the 1990s. He draws important lessons about the likely effects of climate and energy disruptions on different kinds of societies.

The warnings of climate scientists are met by denial and inaction, while energy experts offer little guidance on the effects of future scarcity.

Friedrichs suggests that to confront our predicament we must affirm our core values and take action to transform our way of life. Whether we are private citizens or public officials, complacency is not an option: climate change and energy scarcity are emerging facts of life.

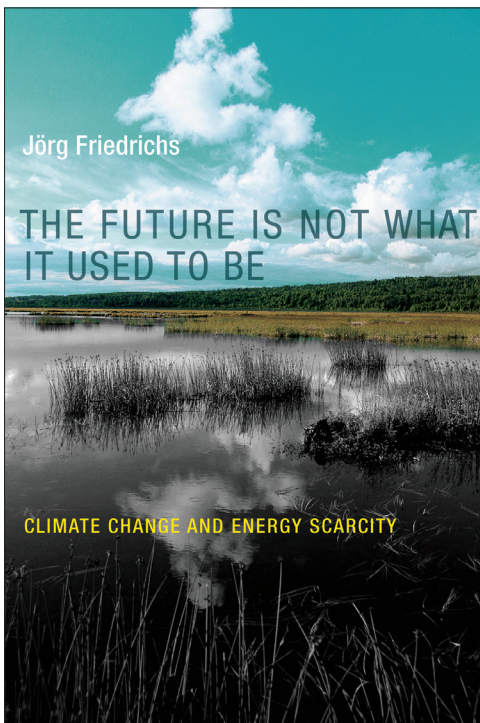
**Jörg Friedrichs** teaches at the University of Oxford in the Department of International Development.

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**A hard look at the twin challenges of climate change and energy scarcity that examines historical precedents and allows no room for complacency.**

September  
6 x 9, 240 pp.  
19 illus.

**\$26.95T/£18.95 cloth**  
978-0-262-01924-8





environment

## A Case for Climate Engineering

David Keith

Climate engineering—which could slow the pace of global warming by injecting reflective particles into the upper atmosphere—has emerged in recent years as an extremely controversial technology. And for good reason: it carries unknown risks and it may undermine commitments to conserving energy. Some critics also view it as an immoral human breach of the natural world. The latter objection, David Keith argues in *A Case for Climate Engineering*, is groundless; we have been using technology to alter our environment for years. But he agrees that there are large issues at stake.

A leading scientist long concerned about climate change, Keith offers no naïve proposal for an easy fix to what is perhaps the most challenging question of our time; climate engineering is no silver bullet. But he argues that after decades during which very little progress has been made in reducing carbon emissions we must put this technology on the table and consider it responsibly. That doesn't mean we will deploy it, and it doesn't mean that we can abandon efforts to reduce greenhouse gas emissions. But we must understand fully what research needs to be done, and how the technology might be designed and used. This book provides a clear and accessible overview of what the costs and risks might be, and how climate engineering might fit into a larger program for managing climate change.

**David Keith** has worked near the interface of climate science, energy technology, and public policy for twenty years. He is currently the Gordon McKay Professor of Applied Physics in the School of Engineering and Applied Sciences (SEAS) at Harvard University and Professor of Public Policy at the Harvard Kennedy School.

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A leading scientist argues that we must consider deploying climate engineering technology to slow the pace of global warming.

September  
4 1/2 x 7, 112 pp.

**\$14.95T/£10.95 cloth**  
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A Boston Review Book



law/politics

## A Constitution for All Times

Pamela S. Karlan

Pamela S. Karlan is a unique figure in American law. A professor at Stanford Law School and former counsel for the NAACP, she has argued seven cases at the Supreme Court and worked on dozens more as a clerk for Justice Harry Blackmun. In her first book written for a general audience, she examines what happens in American courtrooms—especially the Supreme Court—and what it means for our everyday lives and to our national commitments to democracy, justice, and fairness.

Through an exploration of current hot-button legal issues—from voting rights to the death penalty, health care, same-sex marriage, invasive high-tech searches, and gun control—Karlan makes a sophisticated and resonant case for her vision of the Constitution. At the heart of that vision is the conviction that the Constitution is an evolving document that enables government to solve novel problems and expand the sphere of human freedom. As skeptics charge congressional overreach on such issues as the Affordable Care Act and even voting rights, Karlan pushes back. On individual rights in particular, she believes the Constitution allows Congress to enforce the substance of its amendments. And she calls out the Roberts Court for its disdain for the other branches of government and for its alignment with a conservative agenda.

**A prominent lawyer and legal scholar describes her vision of an evolving Constitution, examining current legal issues that range from health care to gun control.**

September  
4 1/2 x 7, 128 pp.

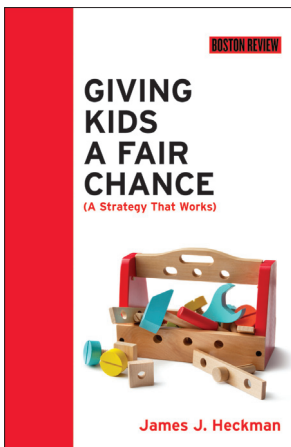
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A Boston Review Book

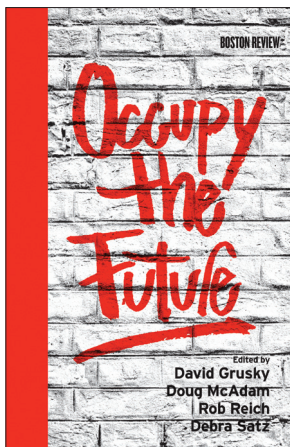
**Pamela S. Karlan**, Kenneth and Harle Montgomery Professor of Public Interest Law at Stanford Law School, cofounded the Stanford Law School Supreme Court Litigation Clinic, through which students litigate live cases before the U.S. Supreme Court.



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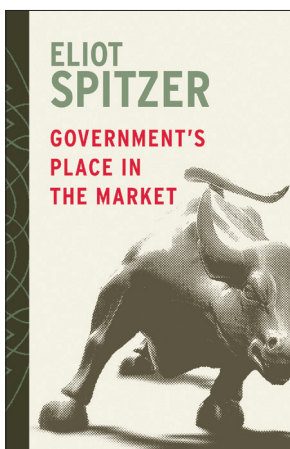
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media

## Memes

Limor Shifman

In December 2012, the exuberant video “Gangnam Style” became the first YouTube clip to be viewed more than one billion times. Thousands of its viewers responded by creating and posting their own variations of the video—“Mitt Romney Style,” “NASA Johnson Style,” “Egyptian Style,” and many others. “Gangnam Style” (and its attendant parodies, imitations, and derivations) is one of the most famous examples of an Internet meme: a piece of digital content that spreads quickly around the web in various iterations and becomes a shared cultural experience. In this book, Limor Shifman investigates Internet memes and what they tell us about digital culture.

Shifman discusses a series of well-known Internet memes—including “Leave Britney Alone,” the pepper-spraying cop, LOLCats, Scumbag Steve, and Occupy Wall Street’s “We Are the 99 Percent.” She offers a novel definition of Internet memes: digital content units with common characteristics, created with awareness of each other, and circulated, imitated, and transformed via the Internet by many users. She differentiates memes from virals; analyzes what makes memes and virals successful; describes popular meme genres; discusses memes as new modes of political participation in democratic and nondemocratic regimes; and examines memes as agents of globalization.

Memes, Shifman argues, encapsulate some of the most fundamental aspects of the Internet in general and of the participatory Web 2.0 culture in particular. Internet memes may be entertaining, but in this book Limor Shifman makes a compelling argument for taking them seriously.

**Limor Shifman** is Senior Lecturer in the Department of Communication and Journalism at Hebrew University of Jerusalem.

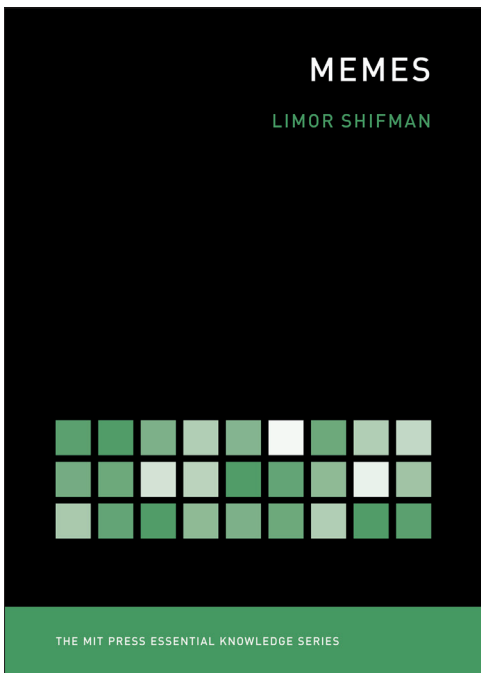
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**Taking “Gangnam Style” seriously: what Internet memes can tell us about digital culture.**

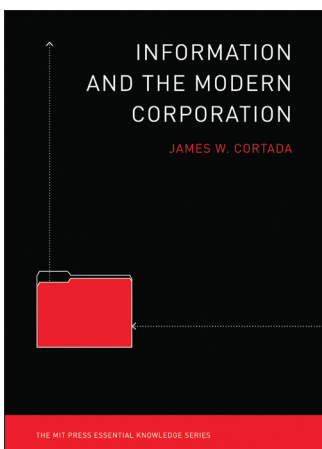
October  
5 x 7, 168 pp.  
23 illus.

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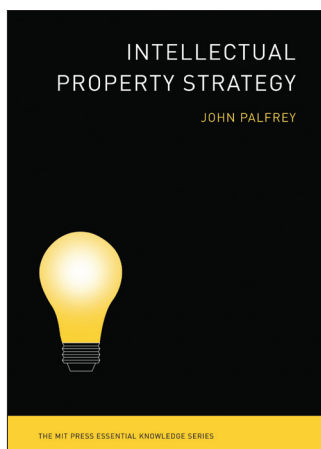
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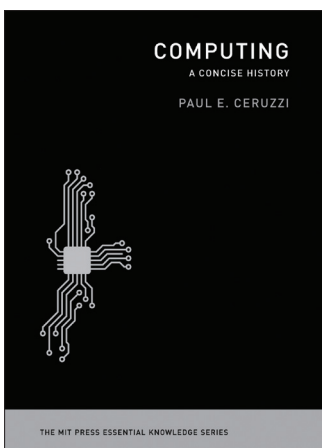
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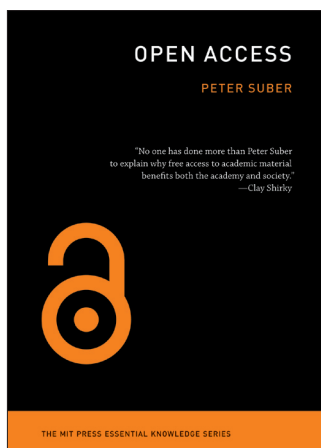
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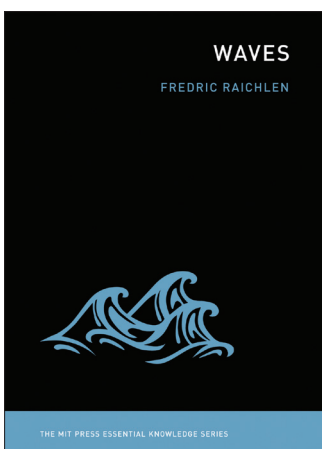
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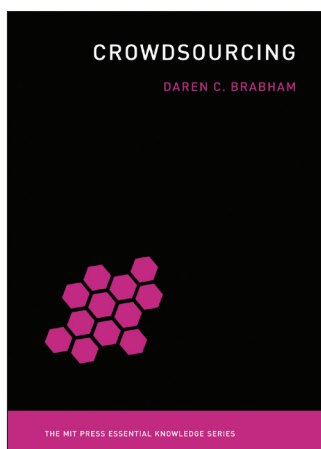
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art

## Your Everyday Art World

Lane Relyea

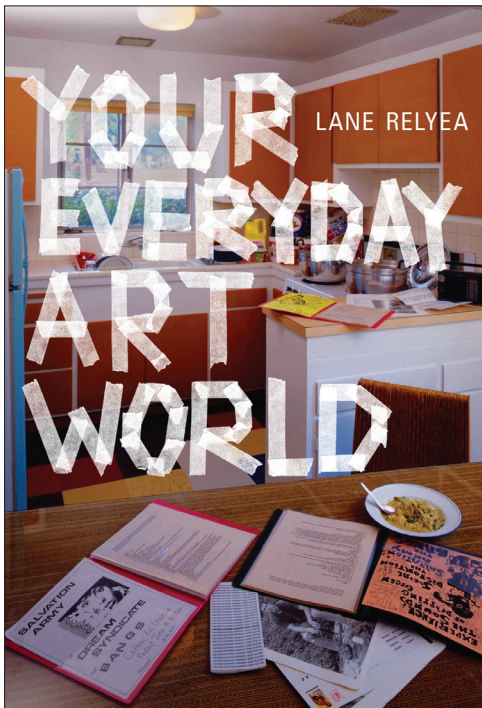
Over the past twenty years, the network has come to dominate the art world, affecting not just interaction among art professionals but the very makeup of the art object itself. The hierarchical and restrictive structure of the museum has been replaced by temporary projects scattered across the globe, staffed by free agents hired on short-term contracts, viewed by spectators defined by their predisposition to participate and make connections. In this book, Lane Relyea tries to make sense of these changes, describing a general organizational shift in the art world that affects not only material infrastructures but also conceptual categories and the construction of meaning.

Examining art practice, exhibition strategies, art criticism, and graduate education, Relyea aligns the transformation of the art world with the advent of globalization and the neoliberal economy. He analyzes the new networked, participatory art world—hailed by some as inherently democratic—in terms of the pressures of part-time temp work in a service economy, the calculated stockpiling of business contacts, and the anxious duty of being a “team player” at work. Relyea calls attention to certain networked forms of art—including relational aesthetics, multiple or fictive artist identities, and bricolaged objects—that can be seen to oppose the values of neoliberalism rather than romanticizing and idealizing them. Relyea offers a powerful answer to the claim that the interlocking functions of the network—each act of communicating, of connecting, or practice— are without political content.

**A critic takes issue with the art world's romanticizing of networks and participatory projects, linking them to the values of a globalized, neoliberal economy.**

October  
5 3/8 x 8, 256 pp.  
36 illus.

**\$24.95T/£17.95 cloth**  
978-0-262-01923-1



**Lane Relyea** is Associate Professor and Chair of Art Theory and Practice at Northwestern University and the Editor-in-Chief of *Art Journal*. His essays and reviews have appeared in such journals as *Artforum*, *Parkett*, *Frieze*, *Art in America*, and *Flash Art*.

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art

## Constructing an Avant-Garde

Art in Brazil, 1949–1979

Sérgio B. Martins

Brazilian avant-garde artists of the postwar era worked from a fundamental but productive out-of-jointness. They were modernist but distant from modernism. Europeans and North Americans may feel a similar displacement when viewing Brazilian avant-garde art; the unexpected familiarity of the works serves to make them unfamiliar. In *Constructing an Avant-Garde*, Sérgio Martins seizes on this uncanny obliqueness and uses it as the basis for a reconfigured account of the history of Brazil's avant-garde. His discussion covers not only widely renowned artists and groups—including Hélio Oiticica, Lygia Clark, Cildo Meireles, and neoconcretism—but also important artists and critics who are less well known outside Brazil, including Mário Pedrosa, Ferreira Gullar, Amílcar de Castro, Luís Sacilotto, Antonio Dias, and Rubens Gerchman.

Martins argues that artists of Brazil's postwar avant-garde updated modernism in a way that was radically at odds with European and North American art historical narratives. He describes defining episodes in Brazil's postwar avant-garde, discussing crucial critical texts, including Gullar's "Theory of the Non-Object," a phenomenological account of neoconcrete artworks; Oiticica, constructivity, and Mondrian; portraiture, self-portraiture, and identity; the nonvisual turn and missed encounters with conceptualism; and monochrome, manifestos, and engagement.

The Brazilian avant-garde's hijacking of modernism, Martins shows, gained further complexity as artists began to face their international minimalist and conceptualist contemporaries in the 1960s and 1970s. Reconfiguring not only art history but their own history, Brazilian avant-gardists were able to face contemporary challenges from a unique—and oblique—standpoint.

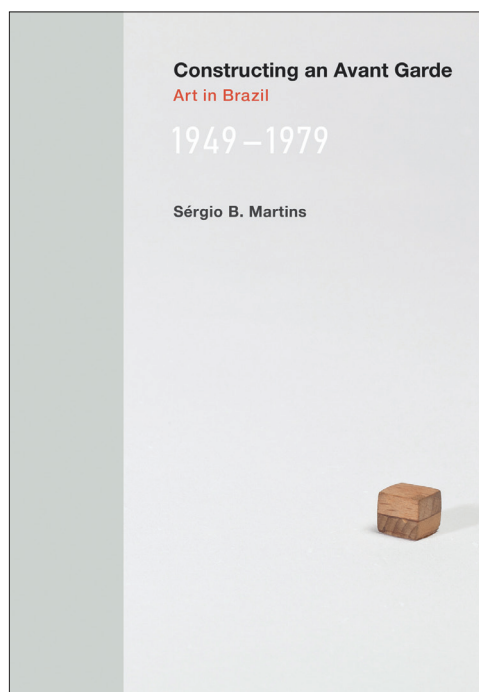
**Sérgio B. Martins** is a critic and art historian living in Rio de Janeiro.

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**How Brazilian postwar avant-garde artists updated modernism in a way that was radically at odds with European and North American art historical narratives.**

October  
7 x 10, 248 pp.  
15 color illus.,  
60 black & white illus.

**\$40.00T/£27.95 cloth**  
978-0-262-01926-2



art

## Critical Laboratory

The Writings of Thomas Hirschhorn

**Thomas Hirschhorn**

edited by Lisa Lee and Hal Foster

**Writings by  
Thomas Hirschhorn,  
collected for the  
first time, trace the  
development of the  
artist's ideas and  
artistic strategies.**

September  
7 x 9, 440 pp.  
48 color illus.,  
63 black & white illus.

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An October Book

*Also available in this series*

**Perpetual Inventory**  
Rosalind E. Krauss

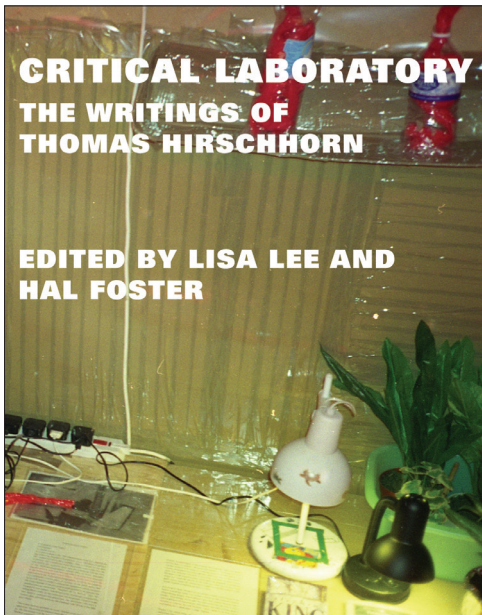
2013, 978-0-262-51872-7  
\$16.95T/£11.95 paper

For the artist Thomas Hirschhorn, writing is a crucial tool at every stage of his artistic practice. From the first sketch of an idea to appeals to potential collaborators, from detailed documentation of projects to post-disassembly analysis, Hirschhorn's writings mark the trajectories of his work. This volume collects Hirschhorn's widely scattered texts, presenting many in English for the first time.

In these writings, Hirschhorn discusses the full range of his art, from works on paper to the massive *Presence and Production* projects in public spaces. "Statements and Letters" address broad themes of aesthetic philosophy, politics, and art historical commitments. "Projects" consider specific artworks or exhibitions. "Interviews" capture the artist in dialogue with Benjamin Buchloh, Jacques Rancière, and others. Throughout, certain continuities emerge: Hirschhorn's commitment to quotidian materials; the centrality of political and economic thinking in his work; and his commitment to art in the public sphere. Taken together, the texts serve to trace the artist's ideas and artistic strategies over the past two decades. *Critical Laboratory* also reproduces, in color, *33 Ausstellungen im öffentlichen Raum 1998–1989*, an out-of-print catalog of Hirschhorn's earliest works in public space.

**Thomas Hirschhorn** (b. 1957) is a Swiss artist known for large sculptures and ambitious projects, often constructed of everyday, makeshift materials. **Lisa Lee** is a Harper Fellow and Collegiate Assistant Professor in the Humanities, Department of Art History, at the University of Chicago. **Hal Foster** is Townsend Martin '17 Professor of Art and Archaeology at Princeton University and the author of *Prosthetic Gods* (MIT Press) and other books.

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architecture/education

## A Second Modernism

MIT, Architecture, and the 'Techno-Social' Moment

edited by Arindam Dutta

After World War II, a second modernism emerged in architecture—an attempt, in architectural scholar Joan Ockman's words, “to transform architecture from a ‘soft’ aesthetic discipline into a ‘hard,’ objectively verifiable field of design expertise.” Architectural thought was influenced by linguistic, behavioral, computational, mediatic, cybernetic, and other urban and behavioral models, as well as systems-based and artificial intelligence theories. This nearly 1,000-page book examines the “techno-social” turn in architecture, taking MIT's School of Architecture and Planning as its exemplar.

In essays and interviews, prominent architectural historians and educators examine the postwar “research-industrial” complex, its attendant cult of expertise, and its influence on life and letters both in America and abroad. Paying particular attention to the ways that technological thought affected the culture of the humanities, the social sciences, and architectural design, the book traces this shift toward complexity as it unfolded, from classroom practices to committee deliberations, from the challenges of research to the vicissitudes of funding. Looking closely at the ways that funded research drew academics towards a “problem-solving” and relevance-seeking mentality and away from the imported Bauhaus model of intuition and aesthetics, the book reveals how linguistics, information sciences, operations research, computer technology, and systems theory became part of architecture's expanded toolkit.

This is a history not just of a school of architecture but of the research-oriented era itself. It offers a thoroughgoing exploration of the ways that policies, politics, and pedagogy transformed themselves in accord with the exponential growth of institutional power.

**Arindam Dutta** is Associate Professor of Architectural History and directs the Master of Science in Architecture Studies (SMArchS) Program in MIT's Department of Architecture. He is the author of *The Bureaucracy of Beauty: Design in the Age of its Global Reproducibility*.

“The stories within this collection provide a timely background to contemporary concerns about the future of the American university.”

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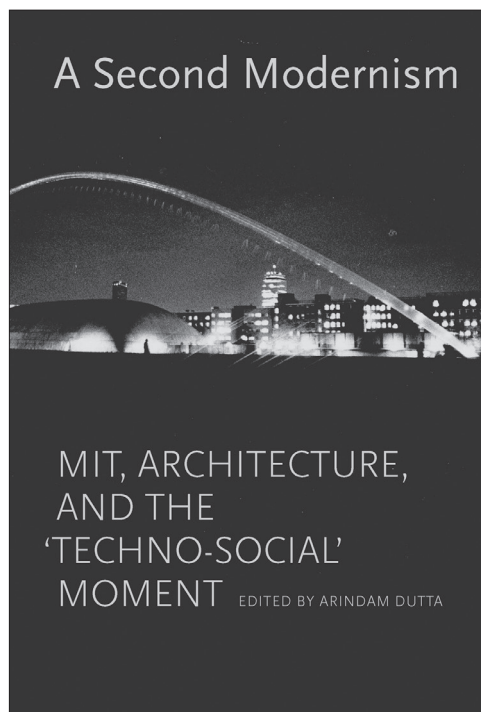
“Deeply researched and critically sophisticated, *A Second Modernism* probes the aspirations and contradictions of architectural knowledge in an age of technoscientific triumphalism.”

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An account of architecture's postwar ambition to transform itself into a research-oriented and technologically complex discipline of design expertise.

October  
6 1/2 x 9 1/2, 928 pp.  
81 color illus.,  
286 black & white illus.  
**\$65.00/£44.95 cloth**  
978-0-262-01985-9



architecture

## Project of Crisis

Manfredo Tafuri and Contemporary Architecture

Marco Biraghi

The influential Italian architectural historian Manfredo Tafuri (1935–1994) invoked the productive possibilities of crisis, writing that history is a “project of crisis” (*progetto di crisi*). In this entry in the Writing Architecture series, Marco Biraghi explores Tafuri’s multifaceted and often knotty oeuvre, using the historian’s concept of a project of crisis as a lens through which to examine his historical construction of contemporary architecture.

Mindful of Tafuri’s statement that there is no such thing as criticism, only history, Biraghi carefully maps the influences on Tafuri’s writing—Walter Benjamin, Karl Krauss, Massimo Cacciari, and the architect Ludovico Quaroni, among others—in order to create a portrait of one of the most complex minds in twentieth-century architecture and architectural history. Tracing an arc from Tafuri’s first articles in the magazine *Contropiano* to the idea of contradiction at the center of the project of crisis, Biraghi cites Tafuri’s writing on some of his contemporaries, including Louis Kahn, Le Corbusier, Robert Venturi, Aldo Rossi, and the “Five Architects” (Peter Eisenman, Michael Graves, Charles Gwathmey, John Hejduk, and Richard Meier). Tafuri’s historical construction of the contemporary, Biraghi explains, is based on the idea that the past is open, providing the present with ever-changing and indeterminate form. There is no contradiction between Tafuri the historian and Tafuri the contemporary critic, only the greatest possible integration. The importance of Tafuri’s interpretation of architecture goes beyond mere academic or historiographic interest, Biraghi argues; Tafuri’s notion of the project of crisis is fundamentally important in understanding our present-day architectural condition.

**Marco Biraghi** is Associate Professor of the History of Contemporary Architecture at Milan Polytechnic University.

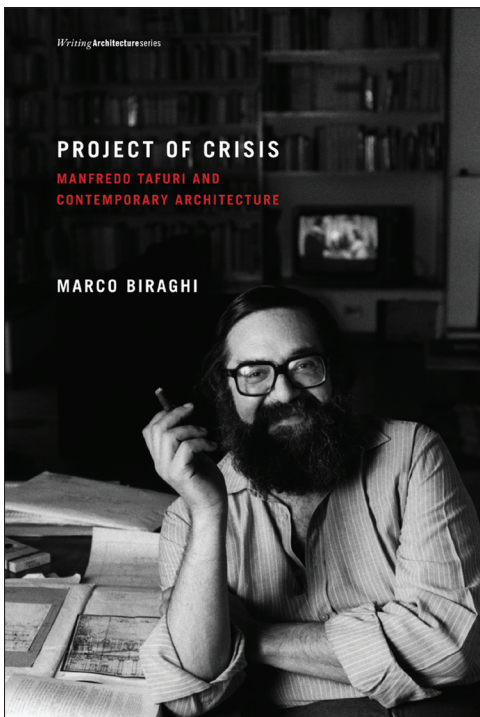
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An examination of the influential Italian architectural historian Manfredo Tafuri’s historical construction of contemporary architecture.

September  
5 3/8 x 8, 272 pp.  
13 illus.

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978-0-262-51956-4

Writing Architecture series



architecture

## A Question of Qualities

Essays in Architecture

Jeffrey Kipnis

edited by Alexander Maymind

Jeffrey Kipnis's writing, thinking, and teaching casts architecture as both an intellectual discourse and a lived, affective experience. His essays on contemporary architects are less about making critical judgments than about explication, exegesis, and provocation. In these eleven essays, written between 1990 and 2008, he considers projects, concepts, and buildings by some of the most recognized architects working today, with special attention to the productions of affect. He explores "intuition" in the work of Morphosis, "exhilaration" in Coop Himmelb(l)au, "freedom" in the work of Rem Koolhaas and OMA, "magic" in Steven Holl's buildings, and "anxiety" in Rafael Moneo's writing about contemporary architecture.

Kipnis's deft integration of art, critical theory, philosophy, pop culture, classical music, and science—what the volume's editor Alexander Maymind calls "ancillary material"—into a rigorous architectural theory and criticism makes *A Question of Qualities* an exemplar of a new way to write about architecture. It is also a distinct pleasure to read. Kipnis transcends the fractious intellectual climate in architecture, stepping outside the boundaries mandated by the vast specialized criteria that the discipline now claims to address. The essays in this volume demonstrate a style of writing that is not so much about architecture as it is an affect of architecture itself.

**Jeffrey Kipnis** is a Professor of Architectural Design and Theory at The Ohio State University.

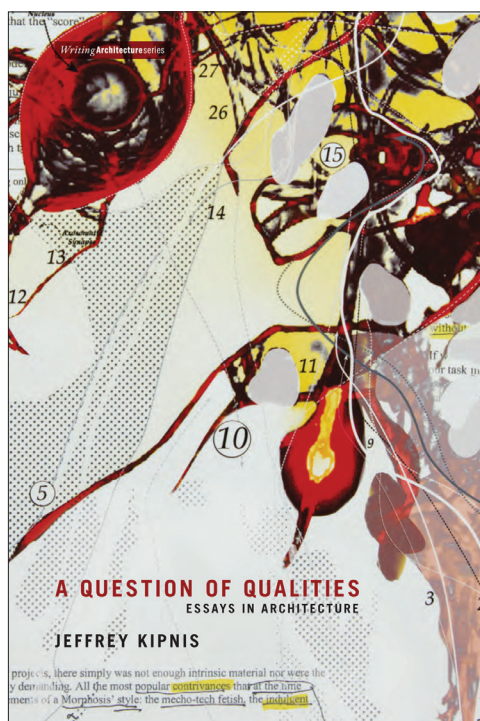
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Writing Architecture series



science/philosophy

## The Outer Limits of Reason

What Science, Mathematics, and Logic Cannot Tell Us

Noson S. Yanofsky

Many books explain what is known about the universe. This book investigates what cannot be known. Rather than exploring the amazing facts that science, mathematics, and reason have revealed to us, this work studies what science, mathematics, and reason tell us cannot be revealed. In *The Outer Limits of Reason*, Noson Yanofsky considers what cannot be predicted, described, or known, and what will never be understood. He discusses the limitations of computers, physics, logic, and our own thought processes.

Yanofsky describes simple tasks that would take computers trillions of centuries to complete and other problems that computers can never solve; perfectly formed English sentences that make no sense; different levels of infinity; the bizarre world of the quantum; the relevance of relativity theory; the causes of chaos theory; math problems that cannot be solved by normal means; and statements that are true but cannot be proven. He explains the limitations of our intuitions about the world—our ideas about space, time, and motion, and the complex relationship between the knower and the known.

Moving from the concrete to the abstract, from problems of everyday language to straightforward philosophical questions to the formalities of physics and mathematics, Yanofsky demonstrates a myriad of unsolvable problems and paradoxes. Exploring the various limitations of our knowledge, he shows that many of these limitations have a similar pattern and that by investigating these patterns, we can better understand the structure and limitations of reason itself. Yanofsky even attempts to look beyond the borders of reason to see what, if anything, is out there.

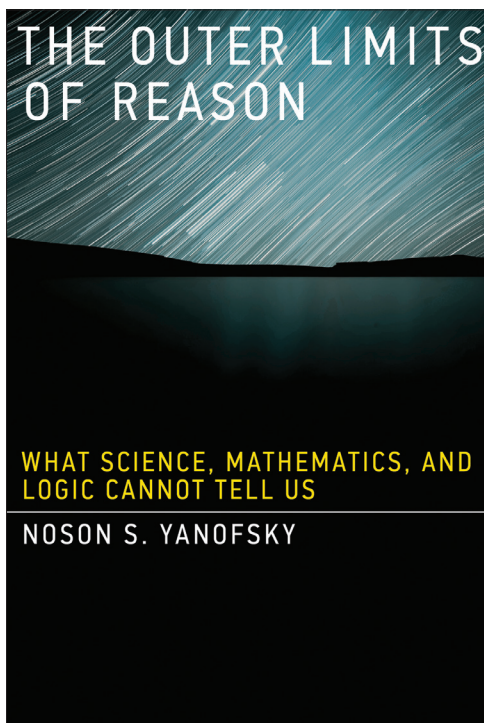
**Noson S. Yanofsky** is Professor in the Department of Computer and Information Science at Brooklyn College and the Graduate Center of the City University of New York. He is a coauthor of *Quantum Computing for Computer Scientists*.

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6 x 9, 416 pp.  
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science/biography

## Paul Lauterbur and the Invention of MRI

M. Joan Dawson

On September 2, 1971, the chemist Paul Lauterbur had an idea that would change the practice of medical research. Considering recent research findings about the use of nuclear magnetic resonance (NMR) signals to detect tumors in tissue samples, Lauterbur realized that the information from NMR signals could be recovered in the form of images—and thus obtained noninvasively from a living subject. It was an unexpected epiphany: he was eating a hamburger at the time. Lauterbur rushed out to buy a notebook in which to work out his idea; he completed his notes a few days later. He had discovered the basic method used in all MRI scanners around the world, and for this discovery he would share the Nobel Prize for Physiology or Medicine in 2003. This book, by Lauterbur's wife and scientific partner, M. Joan Dawson, is the story of Paul Lauterbur's discovery and the subsequent development of the most important medical diagnostic tool since the X-ray.

With MRI, Lauterbur had discovered an entirely new principle of imaging. Dawson explains the science behind the discovery and describes Lauterbur's development of the idea, his steadfastness in the face of widespread skepticism and criticism, and related work by other scientists including Peter Mansfield (Lauterbur's Nobel co-recipient), and Raymond Damadian (who famously feuded with Lauterbur over credit for the ideas behind MRI). She offers not only the story of one man's passion for his work but also a case study of how science is actually done: a flash of insight followed by years of painstaking work.

**M. Joan Dawson** is Associate Professor Emerita in the School of Molecular and Cellular Biology at the University of Illinois at Urbana-Champaign. She was married to Paul Lauterbur from 1984 until his death in 2007.

"*Paul Lauterbur and the Invention of MRI* is a fascinating story, told by the loving wife of a major contributor. Science reports are seldom just right or wrong but live from personal impressions that bring colors into the picture. This account of a major advancement in medicine offers a rare glimpse into the inner workings of science progress."

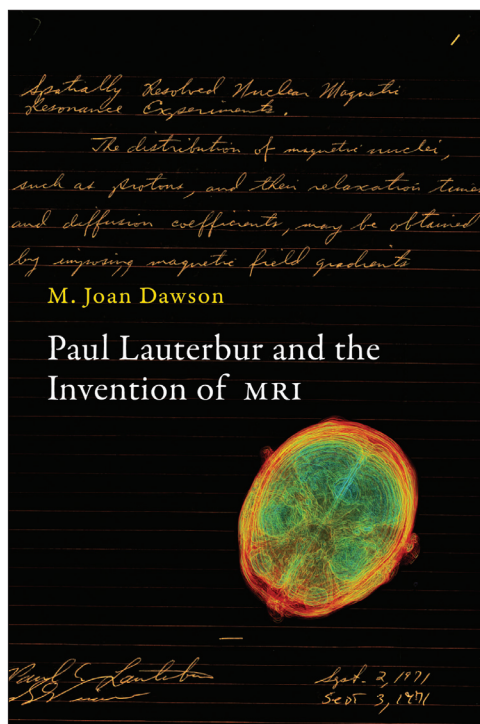
—Richard R. Ernst, ETH, Zürich, Switzerland; winner of the 1991 Nobel Prize for Chemistry

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game studies

## The Well-Played Game

A Player's Philosophy

**Bernard De Koven**

with a new foreword by Eric Zimmerman  
and a new preface by the author

In *The Well-Played Game*, games guru Bernard De Koven explores the interaction of play and games, offering players—as well as game designers, educators, and scholars—a guide to how games work. De Koven's classic treatise on how human beings play together, first published in 1978, investigates many issues newly resonant in the era of video and computer games, including social gameplay and player modification. The digital game industry, now moving beyond its emphasis on graphic techniques to focus on player interaction, has much to learn from *The Well-Played Game*.

De Koven explains that when players congratulate each other on a “well-played” game, they are expressing a unique and profound synthesis that combines the concepts of play (with its associations of playfulness and fun) and game (with its associations of rule-following). This, he tells us, yields a larger concept: the experience and expression of excellence. De Koven—affectionately and appreciatively hailed by Eric Zimmerman as “our shaman of play”—explores the experience of a well-played game, how we share it, and how we can experience it again; issues of cheating, fairness, keeping score, changing old games (why not change the rules in pursuit of new ways to play?), and making up new games; playing for keeps; and winning. His book belongs on the bookshelves of players who want to find a game in which they can play well, who are looking for

others with whom they can play well, and who have discovered the relationship between the well-played game and the well-lived life.

**Bernard De Koven** is a game designer and theorist of fun. He was a codirector of the New Games Foundation and a founder of the Games Preserve. He is the author of *Junkyard Sports* and the creator of the website [deepfun.com](http://deepfun.com).

*“The Well-Played Game* is an essential handbook for game designers, game scholars and critics, game educators and activists, and game players of all stripes. It connects us to what is meaningful in games. And remarkably, it describes our time decades before it arrived.”

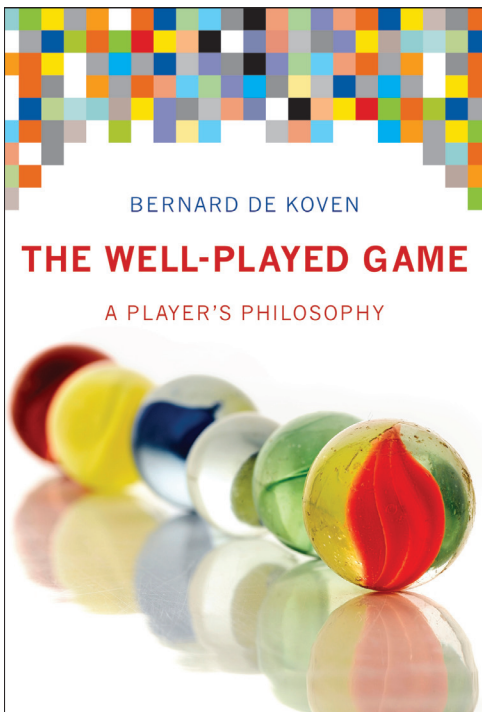
—from the foreword by Eric Zimmerman

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The return of a classic book about games and play that illuminates the relationship between the well-played game and the well-lived life.

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6 illus.

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nature/photography

## Penguins in the Wild

David Tipling

The extraordinary and adorable antics of penguins attract thousands of tourists every year to remote and icy locations. Penguins never fail to make people smile; wild penguins waddle up and inspect us as if we were just another kind of flightless creature walking on two legs. In this book, the vibrant world of penguins is shown in all its glory by David Tipling, who has trekked to beautiful and faraway locations to capture these birds in their natural habitats.

Tipling's gorgeous full-color images catch moments rarely witnessed by humans. He shows us an Adélie penguin speeding through water at 25 mph; a line of King penguins in a snow squall; doting Emperor penguin parents with their fluffy chick; a young penguin nuzzling a camera's telescopic lens; a Rockhopper penguin hopping from rock to rock; a large social gathering of Chinstrap penguins; the striking plumage and courtship display of a male Macaroni penguin; and much more. The book features 139 striking photographs of these unique birds taken in the wild. In the accompanying text, Tipling profiles all of the world's seventeen penguin species, and chapters cover every aspect of their lives and behavior, including migration, defending against predators, and life in extreme climates.

This stunning book is a celebration of penguins that is sure to captivate any bird lover, wildlife enthusiast, or photography buff.

Renowned photographer **David Tipling** has worked as a freelance wildlife photographer since 1992, specializing in the birds of southern oceans. His work has been featured in countless magazines and newspapers, and he has been the author or photographer for more than forty books on birds and wildlife photography.

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art

## Robert Morris

edited by Julia Bryan-Wilson

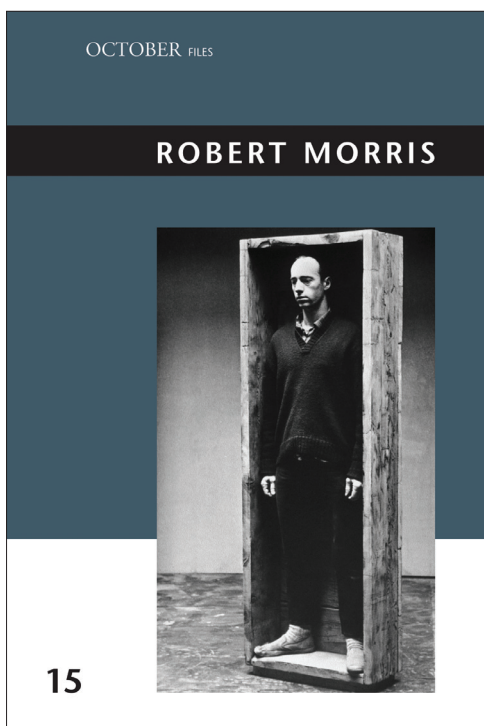
Essays, an interview, and a roundtable discussion on the work of one of the most influential American artists of the postwar period.

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51 illus.

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October Files



This October Files volume gathers essays, an interview, and a roundtable discussion on the work of Robert Morris, one of the most influential American artists of the postwar period. It includes a little-known text on dance by Morris himself and a never-before-anthologized but influential catalog essay by Annette Michelson. Often associated with minimalism, Morris (b. 1931) also created important works that involved dance, process art, and conceptualism. The texts in this volume focus on Morris's early work and include an examination of a 1971 Tate retrospective by Jon Bird, an interview with the artist by Benjamin Buchloh, a conversation from a 1994 issue of *October* about resistance to 1960s art, and an essay by this volume's editor, Julia Bryan-Wilson, on the labor involved in installing the massive works in Morris's 1970 solo exhibition at the Whitney. Spanning 1965 to 2009, these writings map the evolution of critical thought on Morris over more than four decades.

**Julia Bryan-Wilson** is Associate Professor of Modern and Contemporary Art at the University of California, Berkeley, and the author of *Art Workers: Radical Practice in the Vietnam War Era*.

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Notes on Dance (1965)

**Robert Morris**

Robert Morris—An Aesthetics of Transgression (1969)

**Annette Michelson**

A Conversation with Robert Morris in 1985 (1994)

**Benjamin H. D. Buchloh**

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Robert Morris and John Cage: Reconstructing a Dialogue (1997)

**Branden W. Joseph**

Minding the Body: Robert Morris's 1971 Tate Gallery Retrospective (1999)

**Jon Bird**

Robert Morris's Art Strike (2009)

**Julia Bryan-Wilson**



art

## On and By Luc Tuymans

edited by Peter Ruyffelaere

introduction by Adrian Searle

The Belgian artist Luc Tuymans is one of the most influential figurative painters working today. Born in 1958 and based in Antwerp, he has exhibited since 1985, with recent retrospectives in Europe and the United States. From the beginning, his work addressed the challenge to painting's legitimacy posed by minimal and conceptual art by taking a sidestep: creating works that seem to have emerged from a preceding era, alienated from their producer. This formal effect of historical distance works in counterpoint with the paintings' often emotionally evocative subject matter, which ranges from the traumatic legacies of postwar Europe to those of postcolonial Africa. Tuymans has also made films, collaborated closely on projects with other artists, and curated group exhibitions of both contemporary and historic art. In all these endeavors, Tuymans investigates the precarious space between documentation and depiction of personal and collective memory.

This volume collects the artist's statements on his own work as well as his writing on other artists, filmmakers, photographers, philosophers, and writers who have engaged with his thought. The second half of the volume surveys his major bodies of work in texts by leading art historians, critics, theorists, and fellow artists.

**Luc Tuymans** is a Belgian painter based in Antwerp. His work has been exhibited at the Venice Biennale (where he represented Belgium in 2001); the Tate Modern, London; Meseu Serralves, Porto; Wexner Center for the Arts, Columbus; San Francisco Museum of Modern Art; Dallas Museum of Art; and the Museum of Contemporary Art, Chicago. **Peter Ruyffelaere** is an art historian and editor who has collaborated closely with Luc Tuymans for years.

### Contributors include

Ai Weiwei, Montserrat Albores Gleason, Jean-Paul Jungo, Udo Kittelmann, Joseph Leo Koerner, Kerry James Marshall, Takashi Murakami, Wim Peeters, Philippe Pirotte, Pablo Sigg

**On & By**, a new series from London's Whitechapel Gallery, combines writings by internationally significant artists of our time with essential texts on their work by leading scholars, critics, curators, and fellow artists. In *On and By*, the artist's perspective on the world and the world's perspective on the artist meet in the shared activity of writing.

**Writings on the work of the painter Luc Tuymans by the artist himself and the foremost writers engaged with his work.**

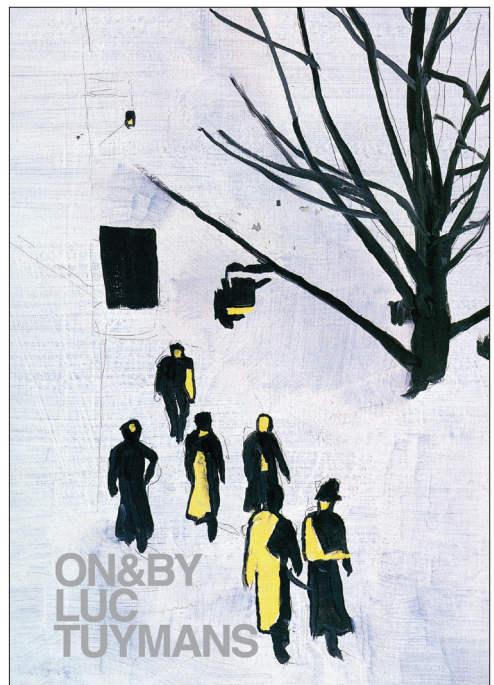
October  
5 3/4 x 8 1/4, 240 pp.

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On & By series

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art

Critical and creative responses to the global art market's influence on issues of value, patronage, institutional power, and public agency.

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Documents of Contemporary  
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## The Market

edited by Natasha Degen

Transnational markets hold sway over all aspects of contemporary culture, and that has transformed the environment of recent art, blurring the previously discrete realms of price and value, capital and creativity. Artists have responded not only critically but imaginatively to the many issues this raises, including the treatment of artworks as analogous to capital goods, the assertion that art's value is best measured by the market, and the notion that art and money share an internal logic. Some artists have investigated the market's pressures on creative democracy, its ubiquity, vulgarity, and fetishizing force, while others have embraced the creative possibilities the market offers. And for a decade curators and theorists have speculated on the implications of this new symbiosis between art and money, cultural and economic value. Drawing on a wide range of interdisciplinary sources, in dialogue with artists' writings, this anthology traces the historic origins of these debates in different versions of modernism and surveys the relationships among art, value, and price; the evolution and influence of patronage; the actors and institutions of the art market; and the diversity of artistic practices that either criticize or embrace the conditions of the contemporary market.

**Natasha Degen** has taught at Cass Business School, City University, London and Sotheby's Institute of Art, and has contributed to publications including *Artforum*, *frieze*, *Art in America*, the *Financial Times*, the *New York Times* and *Yishu: Journal of Contemporary Chinese Art*.

### Artists surveyed include

Carl Andre, Fareed Armaly and Christian Philipp Müller, Fia Backström, Conrad Bakker, John Baldessari, Joseph Beuys, Ian Burn, Maurizio Cattelan, Lygia Clark, Elmgreen & Dragset, Andrea Fraser, Félix González-Torres, Guerrilla Girls, Andreas Gursky, Hans Haacke, Keith Haring, Marianne Heier, Damien Hirst, Christian Jankowski, Jeff Koons, Barbara Kruger, Louise Lawler, Liu Ding, Takashi Murakami, Ahmet Öğüt, Gabriel Orozco, Danica Phelps, Tino Sehgal, Richard Serra, Nedko Solakov, Reena Spaulings, Rirkrit Tiravanija, Andy Warhol, Fred Wilson, Erwin Wurm, Zhou Tiehai

### Writers include

Theodor Adorno, Jack Bankowsky, Jean Baudrillard, Luc Boltanski, Pierre Bourdieu, Martin Braathen, Malcolm Bull, Ève Chiapello, Thierry de Duve, Marvin Elkoff, Hal Foster, Peter Fuller, William Grampp, Josh Greenfield, Miwon Kwon, Kate Linker, Scott Rothkopf, Peter Schjeldahl, Thomas Seelig, Marc Shell, Georg Simmel, Barbara Herrnstein Smith, Wolfgang Ullrich, Karen van den Berg, Thorstein Veblen, Olav Velthuis, Thomas Zauschirm



art

## Time

edited by **Amelia Groom**

What does ‘contemporary’ actually mean? This is among the fundamental questions about the nature and politics of time that philosophers, artists and more recently curators have investigated over the past two decades. If clock time—a linear measurement that can be unified, followed and owned—is largely the invention of capitalist modernity and binds us to its strictures, how can we extricate ourselves and discover alternative possibilities of experiencing time?

Recent art has explored such diverse registers of temporality as wasting and waiting, regression and repetition, *déjà vu* and seriality, unrealized possibility and idleness, non-consummation and counter-productivity, the belated and the premature, the disjointed and the out-of-sync—all of which go against sequentialist time and index slips in chronological experience. While such theorists as Giorgio Agamben and Georges Didi-Huberman have proposed “anachronistic” or “heterochronic” readings of history, artists have opened up the field of time to the extent that the very notion of the contemporary is brought into question. This collection surveys contemporary art and theory that proposes a wealth of alternatives to outdated linear models of time.

**Amelia Groom** is a critic and curator who is completing a PhD in Art History and Theory at the University of Sydney. She is a regular contributor to *frieze* and other contemporary art publications.

### Artists surveyed include

Marina Abramović, Francis Aljys, Matthew Buckingham, Janet Cardiff, Paul Chan, Olafur Eliasson, Bea Fremderman, Toril Johannessen, On Kawara, Joachim Koester, Christian Marclay, nova Milne, Trevor Paglen, Katie Patterson, Raqs Media Collective, Dexter Sinister, Simon Starling, Hito Steyerl, Hiroshi Sugimoto, Tehching Hsieh, Time/Bank, Mark von Schlegell

### Writers include

Giorgio Agamben, Mieke Bal, Geoffrey Batchen, Hans Belting, Walter Benjamin, Franco Berardi, Daniel Birnbaum, Georges Didi-Huberman, Dōgen Zenji, Peter Galison, Boris Groys, Brian Dillon, Elena Filipovic, Joshua Foer, Elizabeth Grosz, Adrian Heathfield, Rachel Kent, Bruno Latour, George Kubler, Doreen Massey, Alexander Nagel, Jean-Luc Nancy, Daniel Rosenberg, Michel Serres, Michel Siffre, Nancy Spector, Nato Thompson, Christopher Wood, George Woodcock

**A survey of contemporary art and theory that proposes alternatives to outdated linear models of time.**

September  
5 3/4 x 8 1/4, 240 pp.

**\$24.95T paper**  
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Documents of Contemporary Art series

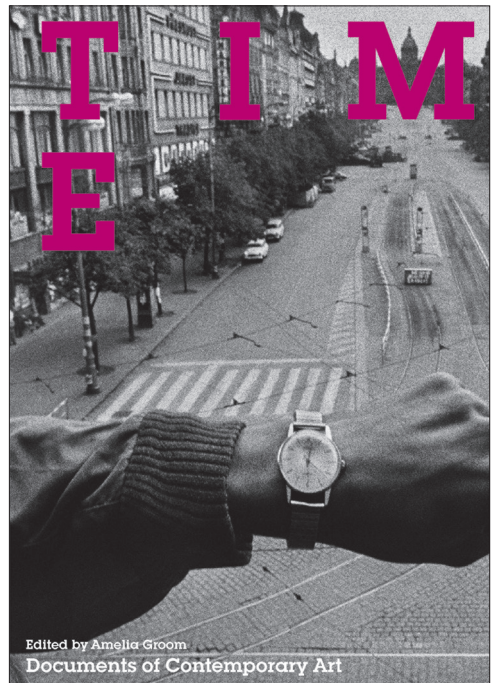
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art/film

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## Rodney Graham

*The Phonokinetoscope*

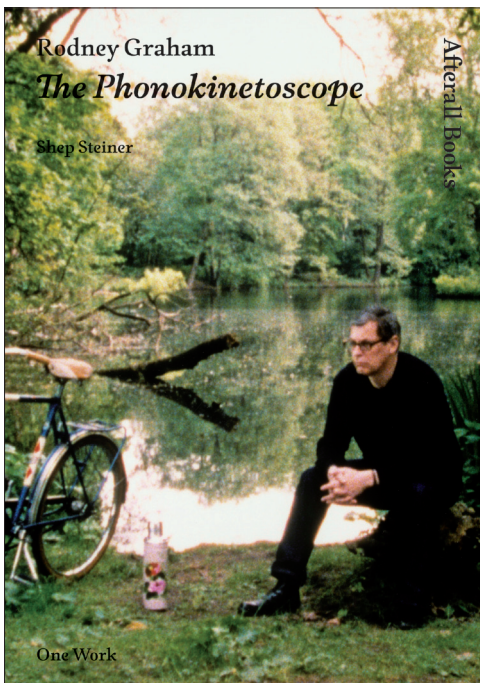
Shep Steiner

Rodney Graham's *The Phonokinetoscope* (2001) is a five-minute 16mm film loop in which the artist is seen riding his Fischer Original bicycle through Berlin's Tiergarten while taking LSD, to the soundtrack of a fifteen-minute song (written and performed by Graham) recorded on a vinyl LP. The turntable drives the projection of the film; the film starts when the needle is placed on the record and stops when the needle is taken off. Graham's ride evokes the Swiss scientist Albert Hoffman's famous 1943 bicycle ride home after an experimental dose of LSD as well as Paul Newman's backward-facing ride in *Butch Cassidy and the Sundance Kid*; the accompanying music presents a thicket of riffs and borrowings. As the images and visual details repeat in the film's endless loop, the artist's sometimes playful observations and references become increasingly complex. *The Phonokinetoscope* refers to a surprising number of works of art and literature, displaying a world rich with subtle meaning.

In this illustrated study of *The Phonokinetoscope*, Shep Steiner describes the work as marking Graham's transition into a new medium. Steiner positions Graham's practice in relation to postminimalist practice and that of other artists including Dan Graham, but especially, Ian Wallace and Jeff Wall; considers Graham's rhetoric of playfulness; and finally, beyond the web of references, argues for a notion of allegory and memory theater keyed to the durational work yet satisfying the aesthetic standards of static art.

*The Phonokinetoscope*, Steiner argues, looks back to Graham's earlier works focusing on the notion of protocinema and forward to his later musical preoccupations.

**Shep Steiner**, an art historian and critic, teaches at Emily Carr University of Art and Design, Vancouver. His writing has appeared in *C-Magazine*, *Parachute*, *Journal of Visual Culture*, and other publications.



architecture

## Perspecta 46

Error

The Yale Architectural Journal

edited by Joseph Clarke and Emma Bloomfield

Architecture never goes entirely according to plan. Every project deviates from its designers' expectations, and wise architects learn to anticipate, mitigate, and sometimes celebrate the errors along the way. *Perspecta 46* argues that error is part of architecture's essence: mistranslations, contradictions, happy accidents, and wicked problems pervade our systems of design and building, almost always yielding surprising aberrations. Today, with increasingly complex projects underpinned by layers of computer code, small errors can proliferate rapidly, and the dream of errorless architecture seems more utopian than ever.

This issue of *Perspecta*—the oldest and most distinguished student-edited architectural journal in America—considers the challenge of defining error, the difficulty of diagnosing and managing it, and the promise (and peril) of following its lead. Essays and projects illuminate error's ambiguous agency both in reality and in the architectural imagination, covering topics that range from Dante's cosmos of divine justice and Michelangelo's architectural "abuses" to Dada urbanism and the warped skyscrapers of Google Earth.

**Joseph Clarke** is an architect and has worked at the firms of Eisenman Architects and Skidmore, Owings & Merrill. He is now completing a doctoral dissertation at Yale University on the history of architectural acoustics. **Emma Bloomfield** is a strategist at Purpose, an organization that builds social and political movements to address global problems. She holds a master's degree in architecture from Yale.

Essays and projects illuminate the nature of error and its creative possibilities for architecture.

September  
9 x 12, 400 pp.  
254 illus.

**\$40.00T/£27.95 paper**  
978-0-262-52503-9

*Also available*

**Re-Reading Perspecta**  
The First Fifty Years of  
The Yale Architectural Journal  
edited by **Robert A. M. Stern,**  
**Peggy Deamer, and Alan Plattus**  
2005, 978-0-262-19506-5  
\$75.00T/£51.95 cloth



art/cultural studies

The first book-length monograph on Elaine Sturtevant, who has focused her career on the artistic copy.

December  
7 x 9, 304 pp.  
80 illus.

**\$34.95T/£24.95 cloth**  
978-1-58435-122-1

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Performances, Essays, Interviews  
Penny Arcade

2009, 978-1-58435-069-9  
\$19.95T/£13.95 cloth

## Under the Sign of [sic]

Sturtevant's Volte-Face

**Bruce Hainley**

Asked to sum up her artistic pursuit, the American artist Elaine Sturtevant once replied: "I create vertigo." Since the mid-1960s, Sturtevant has been using repetition to change the way art is understood. In 1965, what seemed to be a group show by then "hot" artists (Andy Warhol, Jasper Johns, Roy Lichtenstein, George Segal, and James Rosenquist, among others) was in fact Sturtevant's first solo exhibit, every work in it created by herself. Sturtevant would continue to make her work the work of others, focusing her career on the artistic copy. The subject of major museum exhibitions throughout Europe and awarded the Golden Lion for lifetime achievement at the 54th Venice Biennale, she will have a major survey at the MoMA, New York, in 2014.

In *Under the Sign of [sic]*, Bruce Hainley unpacks the work of Sturtevant, providing the first book-length monographic study of the artist in English. Hainley draws on elusive archival materials to tackle not only Sturtevant's work but also the essential problem that it poses. Hainley examines all of Sturtevant's projects in a single year (1967); uses her *Gonzalez-Torres Untitled (Go-Go Dancing Platform)* from 1995 as a conceptual wedge to consider contemporary art's place in the world; and, finally, digs into the most occluded part of her career, from 1971 to 1973, when she created works by Michael Heizer and Walter de Maria, and had her first solo American museum exhibit.

**Bruce Hainley** lives and works in Los Angeles. A contributing editor at *Artforum*, he is the author of two books of poetry, one of which, *Foul Mouth*, was a finalist in the National Poetry Series. With John Waters, he wrote *Art—A Sex Book*. He teaches in the MFA programs of Art Center College of Design and the Roski School of Fine Arts, University of Southern California.



memoir/gay studies/cultural studies

## Returning to Reims

Didier Eribon

translated by Michael Lucey

On thinking the matter through, it doesn't seem exaggerated to assert that my coming out of the sexual closet, my desire to assume and assert my homosexuality, coincided within my personal trajectory with my shutting myself up inside what I might call a class closet.

—from *Returning to Reims*

After his father dies, Didier Eribon returns to his hometown of Reims and rediscovers the working-class world he had left behind thirty years earlier. For years, Eribon had thought of his father largely in terms of the latter's intolerable homophobia. Yet his father's death provokes new reflection on Eribon's part about how multiple processes of domination intersect in a given life and in a given culture. Eribon sets out to investigate his past, the history of his family, and the trajectory of his own life. His story weaves together a set of remarkable reflections on the class system in France, on the role of the educational system in class identity, on the way both class and sexual identities are formed, and on the recent history of French politics, including the shifting voting patterns of the working classes—reflected by Eribon's own family, which changed its allegiance from the Communist Party to the National Front.

*Returning to Reims* is a remarkable book of sociological inquiry and critical theory, of interest to anyone concerned with the direction of leftist politics in the contemporary world, and to anyone who has ever experienced how sexual identity can clash with other parts of one's identity. A huge success in France since its initial publication in 2009, *Returning to Reims* received enthusiastic reviews in *Le Monde*, *Libération*, *L'Express*, *Les Inrockuptibles*, and elsewhere.

**Didier Eribon**, Professor of Sociology at the University of Amiens, is well known for his groundbreaking biography, *Michel Foucault*, first published in 1989. He is also the author of *Insult and the Making of the Gay Self*, as well as numerous other books of critical theory.

"An eminent Parisian intellectual, gay and politically progressive, from a conservative, working-class provincial family, Didier Eribon has written a book that will be of great interest to those concerned with questions of social class, sexuality, and intellectual community. *Return to Reims* is a fascinating and courageous account of how one of France's leading writers has negotiated a complex, frequently conflicted confluence of social and psychic identities."

—**Leo Bersani**, author of *Homos* and coauthor of *Intimacies*

"This intensely personal account of Didier Eribon's family is a fascinating and compelling read. . . . The book is beautifully written (and as beautifully translated). It is at once pleasurable and edifying to read."

—**Joan W. Scott**, Institute for Advanced Study

**A memoir and a meditation on individual and class identity, and the forces that keep us locked in political closets.**

August  
6 x 9, 240 pp.

**\$17.95T/£12.95 paper**  
978-1-58435-123-8

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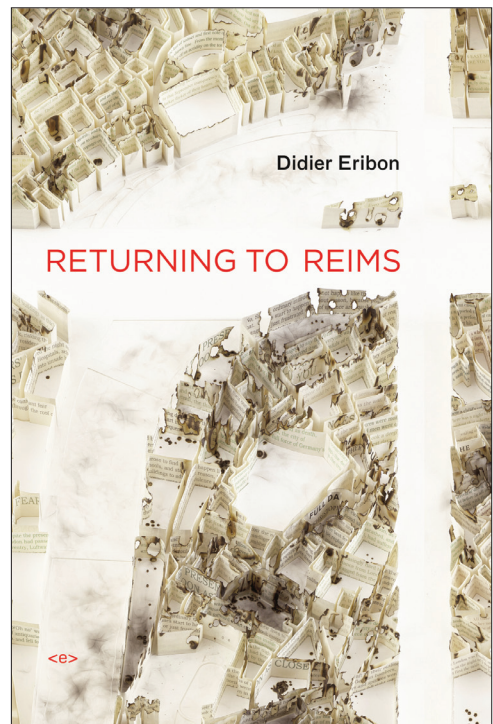
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Abdellah Taïa

2009, 978-1-58435-070-5  
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philosophy/cultural studies

## Nietzsche Apostle

Peter Sloterdijk

translated by Steve Corcoran

Peter Sloterdijk's essay on  
Friedrich Nietzsche and  
the benefits and dangers of  
narcissistic jubilation.

September  
4 1/2 x 7, 104 pp.

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Peter Sloterdijk

2011, 978-1-58435-104-7  
\$34.95T/£24.95 cloth

**Neither Sun Nor Death**  
Peter Sloterdijk

2011, 978-1-58435-091-0  
\$17.95T/£12.95 paper

For Peter Sloterdijk, Friedrich Nietzsche represents nothing short of a “catastrophe in the history of language”—a new evangelist for a linguistics of narcissistic jubilation. Nietzsche offered a philosophical declaration of independence from humility, a meeting-point of sobriety and megalomania that for Sloterdijk has come to define the very project of philosophy.

Yet for all the significance of this language-event named Nietzsche, Nietzsche's contributions have too often been elided and the contradictions at the root of his philosophy too often edited out. As Sloterdijk observes, “Never has an author so insisted on distinction and yet attracted such vulgarity.” *Nietzsche Apostle*, drawn from a speech Sloterdijk gave in 2000 on the hundredth anniversary of Nietzsche's death, looks at the ways in which Nietzsche has been branded over the years through selective compilation, and at the ways in which Nietzsche turned himself into a brand—a brand announced by his proclaimed “fifth Gospel,” *Thus Spoke Zarathustra*. For Sloterdijk, the focus should not be on the figure of Zarathustra or on the “will to power” often used as a kind of philosophical shorthand to sum up Nietzsche's work, but on Zarathustra's act of “speaking” itself. *Nietzsche Apostle* offers a brief history of self-praise and self-affirmation, an examination of the evolution of boasting (both by God and by man), and a very original approach to Nietzsche, philosophy's first designer brand of individualism.

**Peter Sloterdijk** (b. 1947) is one of the best known and widely read German intellectuals writing today. His 1983 publication of *Critique of Cynical Reason* became the best-selling German book of philosophy since World War II. He became president of the State Academy of Design at the Center for Art and Media in Karlsruhe in 2001 and has been cohost of a discussion program, *Das Philosophische Quartett* (Philosophical Quartet) on German television since 2002.

Peter Sloterdijk

## Nietzsche Apostle

semiotext(e)  
intervention  
series □ 16





fiction

## The Suiciders

Travis Jeppesen

My friends are merely effigies I keep to remind me of the animal inside my mind.  
—from *The Suiciders*

Seven friends in a continuous loop of eternal exile and youth embark on a road trip to the end of the world.

September  
6 x 9, 224 pp.

**\$16.95T/£11.95 paper**  
978-1-58435-125-2

Native Agents series  
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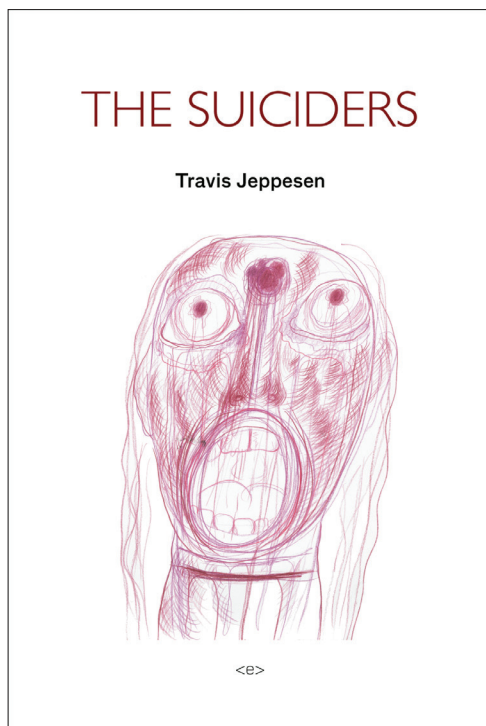
Also available from Semiotext(e)

Reena Spaulings  
Bernadette Corporation  
2005, 978-1-58435-030-9  
\$16.95T/£11.95 paper

During the first decade of the second millennium, a group of seven friends—Zach, Lukas, Adam, Matthew, Peter, Arnold, and Taylor—occupy an indeterminate house in an unidentified American suburb and replay a continuous loop of eternal exile and youth. Permanently in their late teens, the seven young men are fluid and mutable ciphers, although endowed with highly reflexive, and wholly generic, internal lives. “Once you learn how to love, you will also learn how to mutilate it. . . I want to feel so free you can’t even imagine. . . Let’s get out there and eat some popsicles. There is work to be done.” Eventually, the group decides to remove themselves from the safe confines of the house and to embark upon a road trip to the end of the world with their friend, the Whore, and their pet parrot, Jesus H. Christ. *The Suiciders* is their legacy.

Chronicling the last days of a religious cult in rural America, Jeppesen’s debut novel *Victims* was praised by the *Village Voice* for its “artfully fractured vision of memory and escape,” and by *Punk Planet* for its masterful balance of “the laconic speech of teenagers with philosophical density.” In *The Suiciders*, Jeppesen ventures beyond any notion of fixed identity. The result is a dazzling, perversely accurate portrait of American life in the new century, conveyed as a post-punk nouveau roman.

**Travis Jeppesen** is the author of two previous novels, *Victims* and *Wolf at the Door*. His writings on art and film regularly appear in *Artforum*, *Art in America*, and *Whitehouse Magazine of Contemporary Art*. He lives in Berlin and London, where he teaches at the Royal College of Art.



fiction

*New Edition*

## Aliens & Anorexia

**Chris Kraus**

with a new foreword by Palle Yourgrau

As the rope was tightening around my neck, an Alien made love to me. Belief is a technology for softening the landscape. The world becomes more beautiful when God is in it. Here is what happens inside a person's body when they starve.

—from *Aliens & Anorexia*

First published in 2000, Chris Kraus's second novel, *Aliens & Anorexia*, defined a female form of chance that is both emotional and radical. Unfolding like a set of Chinese boxes, with storytelling and philosophy informing each other, the novel weaves together the lives of earnest visionaries and failed artists. Its characters include Simone Weil, the first radical philosopher of sadness; the artist Paul Thek; Kraus herself; and "Africa," Kraus's virtual S&M partner, who is shooting a big-budget Hollywood film in Namibia while Kraus holes up in the Northwest woods to chronicle the failure of *Gravity & Grace*, her own low-budget independent film.

In *Aliens & Anorexia*, Kraus makes a case for empathy as the ultimate perceptive tool, and reclaims anorexia from the psychoanalytic girl-ghetto of poor "self-esteem." Anorexia, Kraus writes, could be an attempt to leave the body altogether: a rejection of the cynicism that this culture hands us through its food. As Palle Yourgrau writes in the book's new foreword, "Kraus's rescue operation for aliens like Weil from behind enemy lines on planet Earth is a gift, if, in the end, like all good deeds, it remains—as Weil herself would be the first to insist—a fool's errand."

The author of four novels, the most recent of which is *Summer of Hate*, and two books of criticism, **Chris Kraus** was recently described by the *New York Observer* as "the art world's favorite fiction writer." She teaches at European Graduate School and lives in Los Angeles.

### Praise for *Aliens & Anorexia*

"Romantic and visionary."

—Tomasso Pincio, *Rolling Stone*

"There are more ideas on every page of *Aliens & Anorexia* than in most books published in the last year. It is an exciting and courageous work."

—Ben Ehrenreich, *L.A. Weekly*

"*Aliens & Anorexia*, read in conjunction with *I Love Dick*, comes apart in a rhapsody of longing; themes and characters are introduced, then altered by associations and reappearance. The unraveling escalates toward a form that resembles a knife wound: scalpel-sharp, female, radical, emotional, and completely original."

—Rachel Kessler, *The Seattle Stranger*

A novel about failure, empathy, and sadness, with a cast of characters that includes Simone Weil, Paul Thek, and the author herself.

September  
6 x 9, 248 pp.**\$15.95T/£10.95 paper**  
978-1-58435-126-9Native Agents series  
Distributed for Semiotext(e)*Also available from Semiotext(e)***I Love Dick**

New Edition

**Chris Kraus**

2006, 978-1-58435-034-7

\$15.95T/£10.95 paper

**Torpor****Chris Kraus**

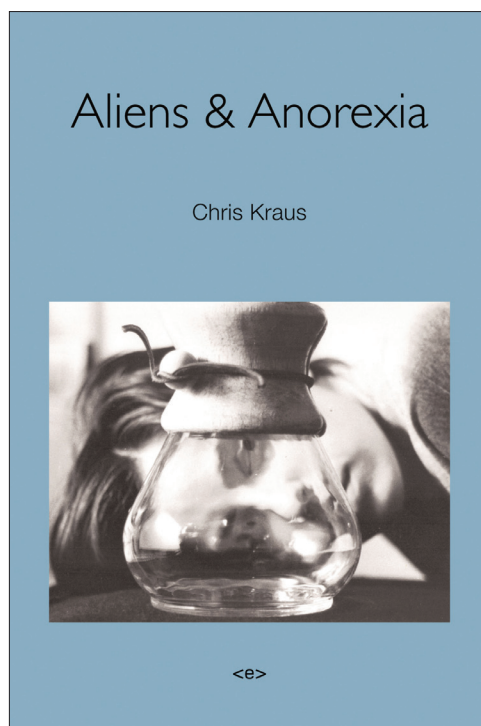
2006, 978-1-58435-027-9

\$14.95T/£10.95 paper

**Summer of Hate****Chris Kraus**

2012, 978-1-58435-113-9

\$17.95T/£12.95 paper



cultural studies/philosophy

An exploration  
of secret languages.

September  
6 x 9, 240 pp.

**\$27.95T/£19.95 cloth**  
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On the Forgetting of Language

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Pythagoras and the  
Disharmony of the World

**Daniel Heller-Roazen**

2011, 978-1-935408-16-1  
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## Dark Tongues

The Art of Rogues and Riddlers

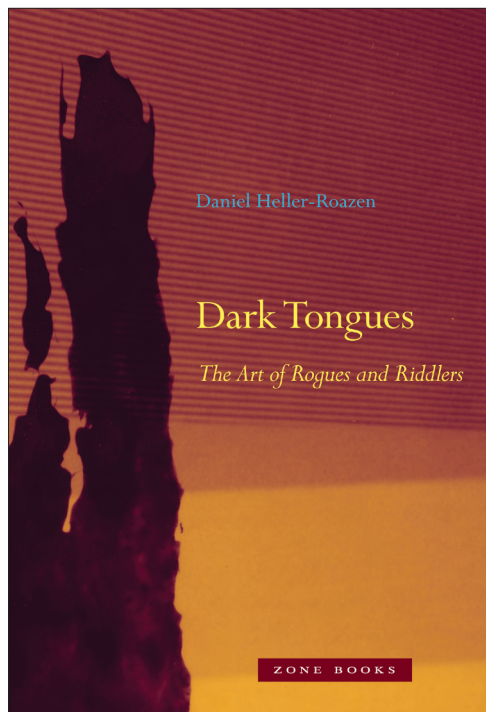
**Daniel Heller-Roazen**

In *Dark Tongues*, Daniel Heller-Roazen offers a sustained exploration of a perplexing fact that has never received the attention it deserves. Wherever human beings share a language, they also strive to make from it something new: a cryptic idiom that will allow them to communicate in secrecy. Secret languages may be playful or serious, as apparently impenetrable as a foreign tongue, or only slightly different from the languages from which they spring.

The first recorded jargons date to the time of the Renaissance in Europe. A varied cast of characters—lawyers, grammarians, and theologians—denounced these new forms of speech, arguing that they served a single and illegitimate end: crime, plotted in tongues that honest people could not understand. Before this, in epochs and regions as diverse as archaic Greece and Rome, medieval Provence and Scandinavia, singers and scribes also invented opaque varieties of speech, not to defraud but to reveal and record a divine thing: the language of the gods, which poets and priests alone were said to know.

*Dark Tongues* moves among these hermetic artificial tongues, exploring phenomena as diverse as criminal jargons and divine speech, Saussure's and Tristan Tzara's work of anagrams, Jakobson's theory of subliminal poetic patterning, and the secret writing systems of the Biblical copyists and Druids. In its eleven succinct chapters, *Dark Tongues* advances a single thesis: that such willfully obscure languages all rest on poetic techniques, which work to play sound and sense against each other.

**Daniel Heller-Roazen** is the Arthur W. Marks '19 Professor of Comparative Literature and the Council of the Humanities at Princeton University. He is the author of *Echolalias: On the Forgetting of Language*; *The Inner Touch: Archaeology of a Sensation*; *The Enemy of All: Piracy and the Law of Nations*; and *The Fifth Hammer: Pythagoras and the Disharmony of the World*, all published by Zone Books.



media history/philosophy

## Ghostly Apparitions

German Idealism, the Gothic Novel, and Optical Media

Stefan Andriopoulos

Drawing together literature, media, and philosophy, *Ghostly Apparitions* provides a new model for media archaeology. Stefan Andriopoulos examines the relationships between new media technologies and distinct cultural realms, tracing connections between Kant's philosophy and the magic lantern's phantasmagoria, the Gothic novel and print culture, and spiritualist research and the invention of television.

As Kant was writing about the possibility of spiritual apparitions, the emerging medium of the phantasmagoria used hidden magic lanterns to terrify audiences with ghostly projections. Andriopoulos juxtaposes the philosophical arguments of German idealism with contemporaneous occultism and ghost shows. In close readings of Kant, Hegel, and Schopenhauer, he traces the diverging ways in which these authors appropriate optical media effects and spiritualist notions.

The spectral apparitions from this period also intersect with an exploding print market and the rise of immersive reading practices. Andriopoulos explores the circulation of ostensibly genuine ghost narratives and Gothic fiction, which was said to produce "reading addiction" and a loss of reality. Romantic representations of animal magnetism and clairvoyance similarly blurred the boundary between fiction and reality. In the 1840s, Edgar Allan Poe adapted a German case history that described a magnetic clairvoyant as arrested in the moment of dying. Yet even though Poe's tale belonged to the realm of literary fiction, it was reprinted as an authentic news item. Andriopoulos extends this archaeology of new media into the early twentieth century. Tracing a reciprocal interaction between occultism and engineering, he reveals how spiritualist research into the psychic "television" of somnambulist clairvoyants enabled the concurrent emergence of the technical medium.

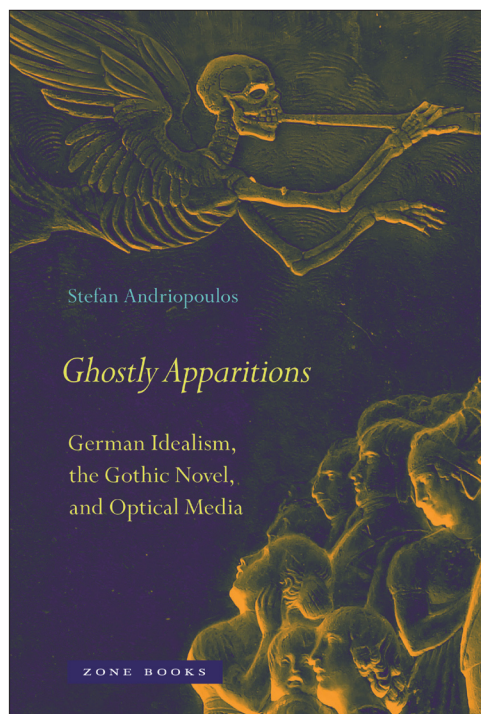
**Stefan Andriopoulos** is Associate Professor and Chair of the Department of Germanic Languages and Literatures at Columbia University. He is the author of *Possessed: Hypnotic Crimes, Corporate Fiction, and the Invention of Cinema*.

**A media archaeology that traces connections between new media technologies and distinct cultural realms, considering topics that range from Kant's philosophy to somnambulist clairvoyants.**

November  
6 x 9, 256 pp.  
10 illus.

**\$28.95T/£19.95 cloth**  
978-1-935408-35-2

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current affairs/political science

now in paper

## Contemporary States of Emergency

The Politics of Military and Humanitarian Interventions

edited by Didier Fassin and Mariella Pandolfi

The new form of  
“humanitarian government”  
emerging from natural  
disasters and military  
occupations that reduces  
people to mere lives  
to be rescued.

September  
6 x 9, 408 pp.

\$24.95T/£17.95 paper  
978-1-935408-01-7

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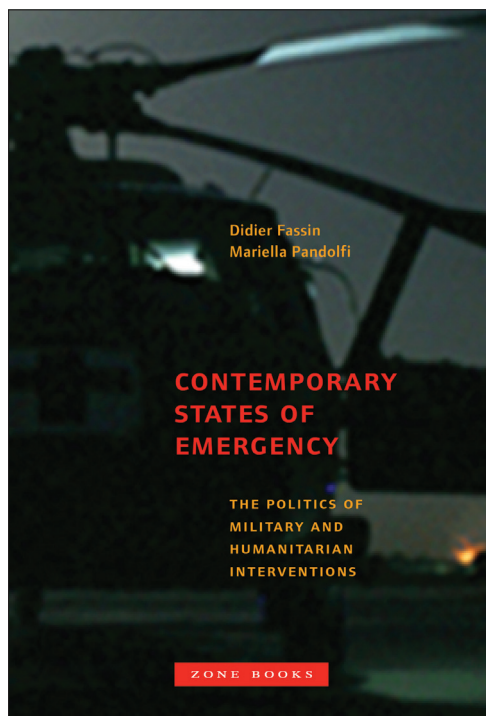
From natural disaster areas to zones of political conflict around the world, a new logic of intervention combines military action and humanitarian aid, conflates moral imperatives and political arguments, and confuses the concepts of legitimacy and legality. The mandate to protect human lives—however and wherever endangered—has given rise to a new form of humanitarian government that moves from one crisis to the next, applying the same battery of technical expertise (from military logistics to epidemiological risk management to the latest social scientific tools for “good governance”) and reducing people with particular histories and hopes to mere lives to be rescued. This book explores these contemporary states of emergency.

Drawing on the critical insights of anthropologists, legal scholars, political scientists, and practitioners from the field, *Contemporary States of Emergency* examines historical antecedents as well as the moral, juridical, ideological, and economic conditions that have made military and humanitarian interventions common today. It addresses the practical process of intervention in global situations on five continents, describing both differences and similarities, and examines the moral and political consequences of these generalized states of emergency and the new form of government associated with them.

**Didier Fassin** is James Wolfensohn Professor of Social Science at the Institute for Advanced Study in Princeton, New Jersey, and Director of Studies in Anthropology at the École des hautes études en sciences sociales. His recent publications include *When Bodies Remember: Experience and Politics of AIDS in South Africa*. **Mariella Pandolfi** is Professor in the Department of Anthropology at the University of Montreal.

“*Contemporary States of Emergency* demands that we rethink the very nature of violence, benevolence, and vulnerability in the face of what Paula Vasquez Lezama felicitously calls ‘compassionate militarization.’”

—Gil Anidjar, author of *Semites: Race, Religion, Literature*



new media/design

## Collaborative Media

Production, Consumption, and Design Interventions

Jonas Löwgren and Bo Reimer

With many new forms of digital media—including such popular social media as Facebook, Twitter, and Flickr—the people formerly known as the audience no longer only consume but also produce and even design media. Jonas Löwgren and Bo Reimer term this phenomenon collaborative media, and in this book they investigate the qualities and characteristics of these forms of media in terms of what they enable people to do. They do so through an interdisciplinary research approach that combines the social sciences and humanities traditions of empirical and theoretical work with practice-based, design-oriented interventions.

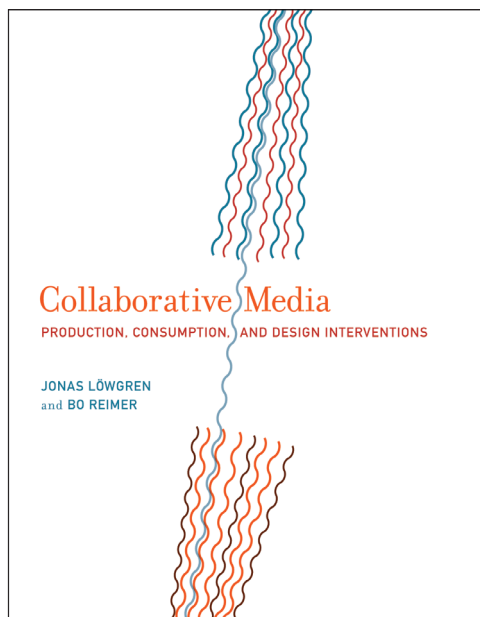
Löwgren and Reimer offer analysis and a series of illuminating case studies—examples of projects in collaborative media that range from small multidisciplinary research experiments to commercial projects used by millions of people. Löwgren and Reimer discuss the case studies at three levels of analysis: society and the role of collaborative media in societal change; institutions and the relationship of collaborative media with established media structures; and tribes, the nurturing of small communities within a large technical infrastructure. They conclude by advocating an interventionist turn within social analysis and media design.

**Jonas Löwgren** is Professor of Interaction Design at Malmö University. He is the coauthor of *Thoughtful Interaction Design: A Design Perspective on Information Technology* (MIT Press). **Bo Reimer** is a Professor of Media and Communication Studies at Malmö University. He is the coauthor of *The Politics of Postmodernity*. Löwgren and Reimer are cofounders of Malmö University's School of Arts and Communication.

**A thorough analysis of contemporary digital media practices, showing how people increasingly not only consume but also produce and even design media.**

November  
7 x 9, 216 pp.  
33 illus.

**\$35.00S/£24.95 cloth**  
978-0-262-01976-7



new media/cultural studies

## Phantasmal Media

An Approach to Imagination, Computation, and Expression

**D. Fox Harrell**

In *Phantasmal Media*, D. Fox Harrell considers the expressive power of computational media. He argues,

**An argument that great expressive power of computational media arises from the construction of phantasms—blends of cultural ideas and sensory imagination.**

forcefully and persuasively, that the great expressive potential of computational media comes from the ability to construct and reveal phantasms—blends of cultural ideas and sensory imagination. These

ubiquitous and often-unseen phantasms—cognitive phenomena that include sense of self, metaphors, social categories, narrative, and poetic thinking—influence almost all our everyday experiences. Harrell offers an approach for understanding and designing computational systems that have the power to evoke these phantasms, paying special attention to the exposure of oppressive phantasms and the creation of empowering ones. He argues for the importance of cultural content, diverse worldviews, and social values in computing. The expressive power of phantasms is not purely aesthetic, he contends; phantasmal media can express and construct the types of meaning central to the human condition.

Harrell discusses, among other topics, the phantasm as an orienting perspective for developers; expressive epistemologies, or data structures based on subjective human worldviews; morphic semiotics (building on the computer scientist Joseph Goguen's theory of algebraic semiotics); cultural phantasms that influence consensus and reveal other perspectives; computing systems based on cultural models; interaction and expression; and the ways that real-world information is mapped onto, and instantiated by, computational data structures.

The concept of phantasmal media, Harrell argues, offers new possibilities for using the computer to understand and improve the human condition through the human capacity to imagine.

**D. Fox Harrell** is Associate Professor of Digital Media at MIT.

October — 7 x 9, 416 pp.  
70 color illus., 22 black & white illus.

**\$40.00S/£27.95 cloth**  
978-0-262-01933-0

new media/art

## Aesthetics of Interaction in Digital Art

**Katja Kwastek**

Since the 1960s, artworks that involve the participation of the spectator have received extensive scholarly

**An art-historical perspective on interactive media art that provides theoretical and methodological tools for understanding and analyzing digital art.**

attention. Yet interactive artworks using digital media still present a challenge for academic art history. In this book, Katja Kwastek argues that the particular aesthetic experience

enabled by these new media works can open up new perspectives for our understanding of art and media alike. Kwastek, herself an art historian, offers a set of theoretical and methodological tools that are suitable for understanding and analyzing not only new media art but also other contemporary art forms. Addressing both the theoretician and the practitioner, Kwastek provides an introduction to the history and the terminology of interactive art, a theory of the aesthetics of interaction, and exemplary case studies of interactive media art.

Kwastek lays the historical and theoretical groundwork with discussions of processual strategies of twentieth-century art and theories of aesthetic experience, process aesthetics, play, and performance. She then develops an aesthetics of interaction, discussing such aspects as real space and data space, temporal structures, instrumental and phenomenal perspectives, and the relationship between materiality and interpretability. Finally, she applies her theory to specific works of interactive media art, including narratives in virtual and real space, interactive installations, and performance—with case studies of works by Olia Lialina, Susanne Berkenheger, Stefan Schemat, Teri Rueb, Lynn Hershman, Agnes Hegedüs, Tmema, David Rokeby, Sonia Cillari, and Blast Theory.

**Katja Kwastek** is an art historian at the School of the Arts at Ludwig-Maximilians-University in Munich.

September — 7 x 9, 400 pp. — 36 illus.

**\$35.00S/£24.95 cloth**  
978-0-262-01932-3



new media/performance/philosophy

## Poiesis and Enchantment in Topological Matter

Sha Xin Wei

afterword by Arkady Plotnitsky

In this challenging but exhilarating work, Sha Xin Wei argues for an approach to materiality inspired by continuous mathematics and process philosophy. Investigating the implications of such an approach to media and matter in the concrete setting of installation- or event-based art and technology, Sha maps a genealogy of topological

media—that is, of an articulation of continuous matter that relinquishes a priori objects, subjects, and egos and yet constitutes value and novelty. Doing so, he explores the ethico-aesthetic consequences of topologically creating performative events and computational media. Sha's interdisciplinary investigation is informed by thinkers ranging from Heraclitus to Alfred North Whitehead to Gilbert Simondon to Alain Badiou to Donna Haraway to Gilles Deleuze and Félix Guattari.

Sha traces the critical turn from representation to performance, citing a series of installation-events envisioned and built over the past decade. His analysis offers a fresh way to conceive and articulate interactive materials of new media, one inspired by continuity, field, and philosophy of process. Sha explores the implications of this for philosophy and social studies of technology and science relevant to the creation of research and art. Weaving together philosophy, aesthetics, critical theory, mathematics, and media studies, he shows how thinking about the world in terms of continuity and process can be informed by computational technologies, and what such thinking implies for emerging art and technology.

**Sha Xin Wei** is Associate Professor of Fine Arts and Computer Science and Director of the Topological Media Lab at Concordia University in Montreal and a member of the Sponge art group.

December — 7 x 9, 400 pp. — 72 illus.

**\$40.00S/£27.95 cloth**  
978-0-262-01951-4

game studies

## Beyond Choices

The Design of Ethical Gameplay

Miguel Sicart

Today's blockbuster video games—and their never-ending sequels, sagas, and reboots—provide plenty of excitement in high-resolution but for the most part fail to engage a player's moral imagination. In *Beyond Choices*, Miguel Sicart calls for a new generation of video and computer games that are ethically relevant by design. In the 1970s, mainstream films—including *The Godfather*, *Apocalypse Now*, *Raging Bull*, and *Taxi Driver*—filled theaters but also treated their audiences as thinking beings. Why can't mainstream video games have the same moral and aesthetic impact? Sicart argues that it is time for games to claim their place in the cultural landscape as vehicles for ethical reflection.

Sicart looks at games in many manifestations: toys, analog games, computer and video games, interactive fictions, commercial entertainments, and independent releases. Drawing on philosophy, design theory, literary studies, aesthetics, and interviews with game developers, Sicart provides a systematic account of how games can be designed to challenge and enrich our moral lives. After discussing such topics as definition of ethical gameplay and the structure of the game as a designed object, Sicart offers a theory of the design of ethical game play. He also analyzes the ethical aspects of game play in a number of current games, including *Spec Ops: The Line*, *Beautiful Escape: Dungeoneer*, *Fallout New Vegas*, and Anna Anthropy's *Dys4ia*. Games are designed to evoke specific emotions; games that engage players ethically, Sicart argues, enable us to explore and express our values through play.

**Miguel Sicart** is Associate Professor at the Center for Computer Games Research at the IT University of Copenhagen. He is the author of *The Ethics of Computer Games* (MIT Press).

September — 6 x 9, 192 pp. — 27 illus.

**\$29.00S/£19.95 cloth**  
978-0-262-01978-1

new media/art

## Relive

Media Art Histories

edited by Sean Cubitt and Paul Thomas

In *Relive*, leading historians of the media arts grapple with this dilemma: how can we speak of “new media”

**Leading historians of the media arts define a new materialist media art history, discussing temporality, geography, ephemerality, and the future.**

and at the same time write the histories of these arts? These scholars and practitioners redefine the nature of the field, focusing on the materials of history—the materials through which the past is mediated.

Drawing on the tools of media archaeology and the history and philosophy of media, they propose a new materialist media art history.

The contributors consider the idea of history and the artwork’s moment in time; the intersection of geography and history in regional practice, illustrated by examples from eastern Europe, Australia, and New Zealand; the contradictory scales of evolution, life cycles, and bodily rhythms in bio art; and the history of the future—how the future has been imagined, planned for, and established as a vector throughout the history of new media arts.

These essays, written from widely diverse critical perspectives, capture a dynamic field at a moment of productive ferment.

**Sean Cubitt** is Professor of Film and Television at Goldsmiths, University of London. He is the author of *The Cinema Effect* (MIT Press) and other books. **Paul Thomas** is Associate Professor in the College of Fine Art at the University of New South Wales and Associate Professor at Curtin University of Technology.

### Contributors

Susan Ballard, Brogan Bunt, Andrés Burbano, Jon Cates, John Conomos, Martin Constable, Sean Cubitt, Francesca Franco, Darko Fritz, Zhang Ga, Monika Gorska-Olesinska, Ross Harley, Jens Hauser, Stephen Jones, Douglas Kahn, Ryszard W. Kluszczyński, Caroline Seck Langill, Leon Marvell, Rudy Rucker, Edward A. Shanken, Stelarc, Adele Tan, Paul Thomas, Darren Tofts, Joanna Walewska

November — 7 x 9, 352 pp. — 73 color illus.

**\$40.00S/£27.95 cloth**  
978-0-262-01942-2

A Leonardo Book

digital humanities/literature

## Scripting Reading Motions

The Codex and the Computer  
as Self-Reflexive Machines

Manuel Portela

In *Scripting Reading Motions*, Manuel Portela explores the expressive use of book forms and programmable

**An exploration of what experimental literature in both print and programmable media tells us about the act of reading.**

media in experimental works of both print and electronic literature and finds a self-conscious play with the dynamics of reading and writing. Portela examines a series of print and digital works

by Johanna Drucker, Mark Z. Danielewski, Rui Torres, Jim Andrews, and others, for the insights they yield about the semiotic and interpretive actions through which readers produce meaning when interacting with codes. Analyzing these works as embodiments and simulations of the motions of reading, Portela pays particular attention to the ways in which awareness of eye movements and haptic interactions in both print and electronic media feeds back onto the material and semantic layers of the works. These feedbacks, he argues, sustain self-reflexive loops that link the body of the reader to the embodied work. Readers’ haptic actions and eye movements coconstitute the object that they are reading.

Portela discusses typographic and graphic marks as choreographic notations for reading movements; examines digital recreations of experimental print literary artifacts; considers reading motions in kinetic and generated texts; analyzes the relationship of bibliographic, linguistic, and narrative coding in Danielewski’s novel-poem, *Only Revolutions*; and describes emergent meanings in interactive textural instruments. The expressive use of print and programmable media, Portela shows, offers a powerful model of the semiotic, interpretive, and affective operations embodied in reading processes.

**Manuel Portela** is Assistant Professor in the Department of Languages, Literatures, and Cultures at the University of Coimbra, Portugal, where he is Director of the Doctoral Program in Advanced Studies in the Materialities of Literature.

October — 6 x 9, 384 pp. — 96 illus.

**\$35.00S/£24.95 cloth**  
978-0-262-01946-0

history of technology/sociology

science, technology, and society

## The Ringtone Dialectic

Economy and Cultural Form

Sumanth Gopinath

A decade ago, the customizable ringtone was ubiquitous. Almost any crowd of cell phone owners

**The rise and fall of the ringtone industry and its effect on mobile entertainment, music, television, film, and politics.**

could produce a carillon of tinkly, beeping, synthy, musicalized ringer signals. Ringtones quickly became a multi-billion-dollar global industry and almost as quickly faded away.

In *The Ringtone Dialectic*, Sumanth Gopinath charts the rise and fall of the ringtone economy and assesses its effect on cultural production.

Gopinath describes the technical and economic structure of the ringtone industry, considering the transformation of ringtones from monophonic, single-line synthesizer files to polyphonic MIDI files to digital sound files and the concomitant change in the nature of capital and rent accumulation within the industry. He discusses sociocultural practices that seemed to wane as a result of these shifts, including ringtone labor, certain forms of musical notation and representation, and the creation of musical and artistic works quoting ringtones. Gopinath examines “declines,” “reversals,” and “revivals” of cultural forms associated with the ringtone and its changes, including the Crazy Frog fad, the use of ringtones in political movements (as in the Philippine “Glorigate” scandal), the ringtone’s narrative function in film and television (including its striking use in the films of the Chinese director Jia Zhangke), and the ringtone’s relation to pop music (including possible race and class aspects of ringtone consumption). Finally, Gopinath considers the attempt to rebrand ringtones as “mobile music” and the emergence of cloud computing.

**Sumanth Gopinath** is Associate Professor of Music Theory at the University of Minnesota.

August — 6 x 9, 400 pp. — 33 illus.

**\$35.00S/£24.95 cloth**  
978-0-262-01915-6

## Arguments that Count

Physics, Computing, and Missile Defense, 1949–2012

Rebecca Slayton

In a rapidly changing world, we rely upon experts to assess the promise and risks of new technology. But

**How differing assessments of risk by physicists and computer scientists have influenced public debate over nuclear defense.**

how do these experts make sense of a highly uncertain future? In *Arguments that Count*, Rebecca Slayton offers an important new perspective. Drawing

on new historical documents and interviews as well as perspectives in science and technology studies, she provides an original account of how scientists came to terms with the unprecedented threat of nuclear-armed intercontinental ballistic missiles (ICBMs). She compares how two different professional communities—physicists and computer scientists—constructed arguments about the risks of missile defense, and how these arguments changed over time. Slayton shows that our understanding of technological risks is shaped by disciplinary repertoires—the codified knowledge and mathematical rules that experts use to frame new challenges. And, significantly, a new repertoire can bring long-neglected risks into clear view.

In the 1950s, scientists recognized that high-speed computers would be needed to cope with the unprecedented speed of ICBMs. But the nation’s elite science advisors had no way to analyze the risks of computers so used physics to assess what they could: radar and missile performance. Only decades later, after establishing computing as a science, were advisors able to analyze authoritatively the risks associated with complex software—most notably, the risk of a catastrophic failure. As we continue to confront new threats, including that of cyber attack, Slayton offers valuable insight into how different kinds of expertise can limit or expand our capacity to address novel technological risks.

**Rebecca Slayton** is a Lecturer in Public Policy and Visiting Scholar at the Center for International Security and Cooperation at Stanford University.

September — 6 x 9, 328 pp. — 11 illus.

**\$35.00S/£24.95 cloth**  
978-0-262-01944-6

Inside Technology series

science, technology, and society/media studies

## Media Technologies

Essays on Communication, Materiality, and Society

edited by **Tarleton Gillespie**,  
**Pablo J. Boczkowski**, and **Kirsten A. Foot**

In recent years, scholarship around media technologies has finally shed the assumption that these technologies

**Scholars from communication and media studies join those from science and technology studies to examine media technologies as complex, sociomaterial phenomena.**

are separate from and powerfully determining of social life, looking at them instead as produced by and embedded in distinct social, cultural, and political practices. Communication and media scholars have

increasingly taken theoretical perspectives originating in science and technology studies (STS), while some STS scholars interested in information technologies have linked their research to media studies inquiries into the symbolic dimensions of these tools. In this volume, scholars from both fields come together to advance this view of media technologies as complex sociomaterial phenomena.

The contributors first address the relationship between materiality and mediation, considering such topics as the lived realities of network infrastructure. The contributors then highlight media technologies as always in motion, held together through the minute, unobserved work of many, including efforts to keep these technologies alive.

**Tarleton Gillespie** is Associate Professor in the Department of Communication at Cornell University and the author of *Wired Shut: Copyright and the Shape of Digital Culture* (MIT Press). **Pablo J. Boczkowski** is Professor and Director of the Program in Media, Technology, and Society at Northwestern University and the author of *The News Gap* (MIT Press). **Kirsten A. Foot** is Associate Professor in the Department of Communication at the University of Washington and lead author of *Web Campaigning* (MIT Press).

### Contributors

Pablo J. Boczkowski, Geoffrey C. Bowker, Finn Brunton, Gabriella Coleman, Gregory J. Downey, Kirsten A. Foot, Tarleton Gillespie, Steven J. Jackson, Christopher M. Kelty, Leah A. Lievrouw, Sonia Livingstone, Ignacio Siles, Jonathan Sterne, Lucy Suchman, Fred Turner

January — 6 x 9, 400 pp. — 10 illus.

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978-0-262-52537-4

Inside Technology series

science, technology, and society

## Representation in Scientific Practice Revisited

edited by **Cateljine Coopmans**, **Janet Vertesi**,  
**Michael Lynch**, and **Steve Woolgar**

*Representation in Scientific Practice*, published by the MIT Press in 1990, helped coalesce a long-standing interest

**A fresh approach to visualization practices in the sciences that considers novel forms of imaging technology and draws on recent theoretical perspectives on representation.**

in scientific visualization among historians, philosophers, and sociologists of science and remains a touchstone for current investigations in science and technology studies. This volume revisits the topic, taking into account both the

changing conceptual landscape of STS and the emergence of new imaging technologies in scientific practice.

The essays consider the ways in which viewing experiences are crafted in the digital era; the embodied nature of work with digital technologies; the constitutive role of materials and technologies—from chalkboards to brain scans—in the production of new scientific knowledge; the metaphors and images mobilized by communities of practice; and the status and significance of scientific imagery in professional and popular culture.

**Cateljine Coopmans** is a Fellow and Director of Studies at Tembusu College and a Research Fellow at the Asia Research Institute at the National University of Singapore. **Janet Vertesi** is Assistant Professor in the Sociology Department at Princeton University. **Michael Lynch** is Professor in the Department of Science and Technology Studies at Cornell University. **Steve Woolgar** is Chair of Marketing and Head of Science and Technology Studies at the University of Oxford.

### Contributors

Morana Alač, Michael Barany, Anne Beaulieu, Annamaria Carusi, Cateljine Coopmans, Lorraine Daston, Sarah de Rijcke, Joseph Dumit, Emma Frow, Yann Giraud, Aud Sissel Hoel, Martin Kemp, Bruno Latour, John Law, Michael Lynch, Donald MacKenzie, Cyrus Mody, Natasha Myers, Rachel Prentice, Arie Rip, Martin Ruivenkamp, Lucy Suchman, Janet Vertesi, Steve Woolgar

January — 7 x 9, 368 pp. — 27 color illus.,  
37 black & white illus.

**\$36.00S/£24.95 paper**  
978-0-262-52538-1

Inside Technology series

technology/international development

Internet studies/science, technology, and society

## Monitoring Movements in Development Aid

Recursive Partnerships and Infrastructures

Casper Bruun Jensen  
and Brit Ross Winthereik

In *Monitoring Movements in Development Aid*, Casper Jensen and Brit Winthereik consider the processes, social practices, and infrastructures that are emerging to monitor development aid, discussing both empirical phenomena and their methodological and analytical challenges. Jensen and Winthereik focus on efforts by aid organizations to make better use of information technology; they analyze a range of *development aid information infrastructures* created to increase accountability and effectiveness. They find that constructing these infrastructures is not simply a matter of designing and implementing technology but entails forging new platforms for action that are simultaneously imaginative and practical, conceptual and technical.

After presenting an analytical platform that draws on science and technology studies and the anthropology of development, Jensen and Winthereik present an ethnography-based analysis of the mutually defining relationship between aid partnerships and infrastructures; the crucial role of users (both actual and envisioned) in aid information infrastructures; efforts to make aid information dynamic and accessible; existing monitoring activities of an environmental NGO; and national-level performance audits, which encompass concerns of both external control and organizational learning.

Jensen and Winthereik argue that central to the emerging movement to monitor development aid is the blurring of means and ends: aid information infrastructures are both technological platforms for knowledge about aid and forms of aid and empowerment in their own right.

**Casper Bruun Jensen** and **Brit Ross Winthereik** are Associate Professors in the Technologies Practice Group at the IT University of Copenhagen.

September — 6 x 9, 208 pp. — 5 illus.

**\$28.00S/£19.95 cloth**  
978-0-262-01965-1

Infrastructures series

## Networking Peripheries

Technological Futures and the Myth of Digital Universalism

Anita Say Chan

In *Networking Peripheries*, Anita Chan shows how digital cultures flourish beyond Silicon Valley and other celebrated centers of technological innovation and entrepreneurship. The evolving digital cultures in the Global South vividly demonstrate that there are more ways than one to

imagine what digital practice and global connection could look like. To explore these alternative developments, Chan investigates the diverse initiatives being undertaken to “network” the nation in contemporary Peru, from attempts to promote the intellectual property of indigenous artisans to the national distribution of digital education technologies to open technology activism in rural and urban zones.

Drawing on ethnographic accounts from government planners, regional free-software advocates, traditional artisans, rural educators, and others, Chan demonstrates how such developments unsettle dominant conceptions of information classes and innovations zones. Government efforts to turn rural artisans into a new creative class progress alongside technology activists’ efforts to promote indigenous rights through information tactics; plans pressing for the statewide adoption of open source-based technologies advance while the One Laptop Per Child initiative aims to network rural classrooms by distributing laptops. As these cases show, the digital cultures and network politics emerging on the periphery do more than replicate the technological future imagined as universal from the center.

**Anita Say Chan** is Assistant Research Professor of Communications in the Department of Media and Cinema Studies and the Institute of Communications Research in the College of Media at the University of Illinois at Urbana-Champaign.

November — 6 x 9, 280 pp. — 9 illus.

**\$32.00S/£22.95 cloth**  
978-0-262-01971-2

international development/technology

## Open Development

Networked Innovations  
in International Development

edited by **Matthew L. Smith,**  
and **Katherine M. A. Reilly**

foreword by **Yochai Benkler**

The emergence of open networked models made possible by digital technology has the potential to transform international development. Open network structures allow people to come together to share information, organize, and collaborate. Open development harnesses this power, to create new organizational forms and improve people's lives; it is not only an agenda for research and practice but also a statement about how to approach international development. In this volume, experts explore a variety of applications of openness, addressing challenges as well as opportunities.

Open development requires new theoretical tools that focus on real world problems, consider a variety of solutions, and recognize the complexity of local contexts. After exploring the new theoretical terrain, the book describes a range of cases in which open models address such specific development issues as biotechnology research, improving education, and access to scholarly publications. Contributors then examine tensions between open models and existing structures, including struggles over privacy, intellectual property, and implementation.

**Matthew L. Smith** is Program Officer in the Science and Innovation Program Area at the International Development Research Centre, Ottawa. **Katherine M. A. Reilly** is Assistant Professor in the School of Communication at Simon Fraser University.

### Contributors

Carla Bonina, Ineke Buskens, Leslie Chan, Abdallah Daar, Jeremy de Beer, Mark Graham, Eve Gray, Anita Gurumurthy, Havard Haarstad, Blane Harvey, Myra Khan, Melissa Loudon, Aaron K. Martin, Hassan Masum, Chidi Oguamanam, Katherine M. A. Reilly, Ulrike Rivett, Karl Schroeder, Parminder Jeet Singh, Matthew L. Smith, Marshall S. Smith

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Research Centre of Canada (IDRC)

history of science/biography

## Emil du Bois-Reymond

Neuroscience, Self, and Society  
in Nineteenth-Century Germany

**Gabriel Finkelstein**

Emil du Bois-Reymond is the most important forgotten intellectual of the nineteenth century. In his own

**A biography of an important but largely forgotten nineteenth-century scientist whose work helped lay the foundation of modern neuroscience.**

time (1818–1896) du Bois-Reymond grew famous in his native Germany and beyond for his groundbreaking research in neuroscience and his provocative addresses on politics

and culture. This biography by Gabriel Finkelstein draws on personal papers, published writings, and contemporary responses to tell the story of a major scientific figure. Du Bois-Reymond's discovery of the electrical transmission of nerve signals, his innovations in laboratory instrumentation, and his reductionist methodology all helped lay the foundations of modern neuroscience.

In addition to describing the pioneering experiments that earned du Bois-Reymond a seat in the Prussian Academy of Sciences and a professorship at the University of Berlin, Finkelstein recounts du Bois-Reymond's family origins, private life, public service, and lasting influence. Du Bois-Reymond's public lectures made him a celebrity. In talks that touched on science, philosophy, history, and literature, he introduced Darwin to German students (triggering two days of debate in the Prussian parliament); asked, on the eve of the Franco-Prussian War, whether France had forfeited its right to exist; and proclaimed the mystery of consciousness, heralding the age of doubt. The first modern biography of du Bois-Reymond in any language, this book recovers an important chapter in the history of science, the history of ideas, and the history of Germany.

**Gabriel Finkelstein** is Associate Professor of History at the University of Colorado Denver.

November — 7 x 9, 408 pp. — 15 illus.

**\$38.00S/£26.95 cloth**  
978-0-262-01950-7

Transformations: Studies in the History of Science  
and Technology

higher education/women's studies/engineering

## Girls Coming to Tech!

A History of American Engineering Education for Women

**Amy Sue Bix**

Engineering education in the United States was long regarded as masculine territory. For decades, women who studied or worked in engineering were popularly perceived as oddities, outcasts, unfeminine (or inappropriately feminine in a male world). In *Girls Coming to Tech!*, Amy Bix tells the story of how women gained entrance to the traditionally male field of engineering in American higher education.

As Bix explains, a few women breached the gender-reinforced boundaries of engineering education before World War II. During World War II, government, employers, and colleges actively recruited women to train as engineering aides, channeling them directly into defense work. These wartime training programs set the stage for more engineering schools to open their doors to women. Bix offers three detailed case studies of post-war engineering coeducation. Georgia Tech admitted women in 1952 to avoid a court case, over objections by traditionalists. In 1968, Caltech male students argued that nerds needed a civilizing female presence. At MIT, which had admitted women since the 1870s but treated them as a minor afterthought, feminist-era activists pushed the school to welcome more women and take their talent seriously.

In the 1950s, women made up less than one percent of students in American engineering programs; in 2010 and 2011, women earned 18.4% of bachelor's degrees, 22.6% of master's degrees, and 21.8% of doctorates in engineering. Bix's account shows why these gains were hard won.

**Amy Sue Bix** is Associate Professor in the Department of History at Iowa State University, where she is also the Director of the Center for Historical Studies of Technology and Science.

How women coped with both formal barriers and informal opposition to their entry into the traditionally masculine field of engineering in American higher education.

October  
7 x 9, 304 pp.  
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Engineering Studies series



AMY SUE BIX

## GIRLS COMING TO TECH!

A History of  
**AMERICAN  
ENGINEERING  
EDUCATION**  
for **WOMEN**

education/technology

## Connected Play

Tweens in a Virtual World

**Yasmin B. Kafai and Deborah A. Fields**

foreword by Mizuko Ito

**How kids play in virtual worlds, how it matters for their offline lives, and what this means for designing educational opportunities.**

November  
6 x 9, 216 pp.  
27 illus.

**\$25.00S/£17.95 cloth**  
978-0-262-01993-4

The John D. and  
Catherine T. MacArthur  
Foundation Series on Digital  
Media and Learning

*Also available*

**Hanging Out, Messing Around,  
and Geeking Out**

Kids Living and Learning  
with New Media  
**Mizuko Ito**

2013, 978-0-262-51854-3  
\$19.00S/£13.95 paper

Millions of children visit virtual worlds every day. In such virtual play spaces as Habbo Hotel, Toontown, and Whyville, kids chat with friends from school, meet new people, construct avatars, and earn and spend virtual currency. In *Connected Play*, Yasmin Kafai and Deborah Fields investigate what happens when kids play in virtual worlds, how this matters for their offline lives, and what this means for the design of educational opportunities in digital worlds.

Play is fundamentally important for kids' development, but, Kafai and Fields argue, to understand play in virtual worlds, we need to connect concerns of development and culture with those of digital media and learning. Kafai and Fields do this through a detailed study of kids' play in Whyville, a massive, informal virtual world with educational content for tween players. Combining ethnographic accounts with analysis of logfile data, they present rich portraits and overviews of how kids learn to play in a digital domain, developing certain technological competencies; how kids learn to play well—responsibly, respectfully, and safely; and how kids learn to play creatively, creating content that becomes a part of the virtual world itself.

**Yasmin B. Kafai** is Professor of Learning Sciences at the University of Pennsylvania and lead editor of *Beyond Barbie and Mortal Kombat: New Perspectives on Gender and Gaming*. **Deborah A. Fields** is Assistant Professor of Instructional Technology and Learning Sciences at Utah State University.





education/technology

## The Future of the Curriculum

School Knowledge in the Digital Age

**Ben Williamson**

Although ideas about digital media and learning have become an important area for educational research,

**An examination of curriculum innovations that are shaped by new ideas about digital media and learning.**

little attention has been given to the practical and conceptual implications for the school curriculum. In this book, Ben Williamson examines a series of

contemporary curriculum innovations in the United States, Great Britain, and Australia that reflect the social and technological changes of the digital age. Arguing that the curriculum is always both forward- and rearward-looking, Williamson considers how each of these innovations represents a certain way of understanding the past while also promoting a particular vision of the future.

The curriculum initiatives are all examples of what Williamson calls “centrifugal schooling,” expressing a vision of education and learning that is decentered, distributed, and dispersed, emphasizing networks and connections. In centrifugal schooling, a curriculum is actively assembled and improvised from a heterogeneous mix of people, groups, coalitions, and institutional structures. Participants in curriculum design and planning include local governments, corporations, foundations, charities, and nongovernmental organizations.

Among the curriculum innovations Williamson examines are High Tech High, a charter school network in San Diego that integrates technical and academic education; Opening Minds, a “competence-based” curriculum used in 200 British secondary schools; and Quest to Learn, a “school for digital kids” in New York City (with a sister school in Chicago). He also describes two major partnerships: the Partnership for 21st Century Skills, which advocates for “21st century readiness” for American students; and the Whole Education Alliance in Britain, a network of “third sector” educational organizations.

**Ben Williamson** is a Lecturer in the School of Education at the University of Stirling, United Kingdom.

Available — 5 3/8 x 8, 148 pp.

**\$14.00S/£9.95 paper**  
978-0-262-51882-6

The John D. and Catherine T. MacArthur Foundation Reports on Digital Media and Learning

education/technology

## Stealth Assessment

Measuring and Supporting Learning in Video Games

**Valerie Shute and Matthew Ventura**

To succeed in today’s interconnected and complex world, workers need to be able to think systemically, creatively, and critically.

**An approach to performance-based assessments that embeds assessments in digital games in order to measure how students are progressing toward targeted goals.**

Equipping K-16 students with these twenty-first-century competencies requires new thinking not only about what should be taught in school but also about how to develop valid assessments to

measure and support these competencies. In *Stealth Assessment*, Valerie Shute and Matthew Ventura investigate an approach that embeds performance-based assessments in digital games. They argue that using well-designed games as vehicles to assess and support learning will help combat students’ growing disengagement from school, provide dynamic and ongoing measures of learning processes and outcomes, and offer students opportunities to apply such complex competencies as creativity, problem solving, persistence, and collaboration. Embedding assessments within games provides a way to monitor players’ progress toward targeted competencies and to use that information to support learning.

Shute and Ventura discuss problems with such traditional assessment methods as multiple-choice questions, review evidence relating to digital games and learning, and illustrate the stealth-assessment approach with a set of assessments they are developing and embedding in the digital game *Newton’s Playground*. These stealth assessments are intended to measure levels of creativity, persistence, and conceptual understanding of Newtonian physics during game play. Finally, they consider future research directions related to stealth assessment in education.

**Valerie Shute** is Professor of Educational Psychology and Learning Systems at Florida State University.

**Matthew Ventura** is a Research Scientist at Florida State University.

Available — 5 3/8 x 8, 102 pp. — 18 illus.

**\$14.00S/£9.95 paper**  
978-0-262-51881-9

The John D. and Catherine T. MacArthur Foundation Reports on Digital Media and Learning

education/media/political science

## The Civic Web

Young People, the Internet,  
and Civic Participation

Shakuntala Banaji and David Buckingham

There has been widespread concern in contemporary Western societies about declining engagement in

**An investigation of how governments, organizations, and groups use the Internet to promote civic and political engagement among young people.**

civic life; people are less inclined to vote, to join political parties, to campaign for social causes, or to trust political processes. Young people in particular are frequently described as alienated

or apathetic. Some have looked optimistically to new media—and particularly the Internet—as a means of revitalizing civic life and democracy. Governments, political parties, charities, NGOs, activists, religious and ethnic groups, and grassroots organizations have created a range of youth-oriented websites that encourage widely divergent forms of civic engagement and use varying degrees of interactivity. But are young people really apathetic and lacking in motivation? Does the Internet have the power to re-engage those disenchanting with politics and civic life?

Based on a major research project funded by the European Commission, this book attempts to understand the role of the Internet in promoting young people's participation. Examples are drawn from Hungary, the Netherlands, Slovenia, Spain, Sweden, Turkey, and the United Kingdom—countries offering contrasting political systems and cultural contexts. The book also addresses broader questions about the meaning of civic engagement, the nature of new forms of participation, and their implications for the future of civic life.

**Shakuntala Banaji** is a Lecturer in the Department of Media and Communication and Director of the Master's Programme in Media, Communication, and Development at the London School of Economics and Political Science.

**David Buckingham** is Professor of Media and Communications at Loughborough University, Leicestershire, UK. He is the author of *The Material Child: Growing Up in Consumer Culture* and other books.

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The John D. and Catherine T. MacArthur Foundation  
Series on Digital Media and Learning

philosophy

## The Life of Reason or The Phases of Human Progress

Book Two: Reason in Society

Critical Edition

George Santayana

edited by Marianne S. Woceck  
and Martin A. Coleman

introduction by James Gouinlock

Santayana's *Life of Reason*, published in five books from 1905 to 1906, ranks as one of the greatest works in modern philosophical naturalism. Acknowledging the natural material bases of human life, Santayana traces the development of the

human capacity for appreciating and cultivating the ideal. It is a capacity he exhibits as he articulates a continuity running through animal impulse, practical intelligence, and ideal harmony in reason, society, art, religion, and science. The work is an exquisitely rendered vision of human life lived sanely.

In this second book, Santayana analyzes several distinctive forms of human association, from political and economic orders to forms of friendship, to determine what possibilities they provide for the life of reason. He considers, among other topics, love and the affinity for the ideal, the family, aristocracy and democracy, the constituents of genuinely free friendship (including that of husband and wife), patriotism, and the ideal society of kindred spirits.

This Critical Edition, volume VII of *The Works of George Santayana*, includes a chronology, notes, bibliography, textual commentary, lists of variants, and other tools useful to Santayana scholars. The other four books of the volume include *Reason in Common Sense*, *Reason in Religion*, *Reason in Art*, and *Reason in Science*.

**George Santayana** (1863–1952) was a philosopher, poet, critic, and novelist. He is the author of *The Last Puritan*, *Persons and Places* (both published by the MIT Press), and many other works. The MIT Press has recently completed publication of eight books of Santayana's letters.

August — 6 x 9, 312 pp. — 1 illus.

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The Works of George Santayana, Volume VII

philosophy

## Matter and Consciousness

Third Edition

Paul M. Churchland

In *Matter and Consciousness*, Paul Churchland presents a concise and contemporary overview of the philosophical issues surrounding the mind and explains the main theories and philosophical positions that have been proposed to solve them. Making the case for the relevance of theoretical and experimental results in neuroscience, cognitive science, and artificial intelligence for the philosophy of mind, Churchland reviews current developments in the cognitive sciences and offers a clear and accessible account of the connections to philosophy of mind.

For this third edition, the text has been updated and revised throughout. The changes range from references to the iPhone's "Siri" to expanded discussions of the work of such contemporary philosophers as David Chalmers, John Searle, and Thomas Nagel. Churchland describes new research in evolution, genetics, and visual neuroscience, among other areas, arguing that the philosophical significance of these new findings lies in the support they tend to give to the reductive and eliminative versions of materialism.

*Matter and Consciousness*, written by the most distinguished theorist and commentator in the field, offers an authoritative summary and sourcebook for issues in philosophy of mind. It is suitable for use as an introductory undergraduate text.

**Paul M. Churchland** is Emeritus Professor of Philosophy at the University of California, San Diego. He is the author of *The Engine of Reason, the Seat of the Soul*; *Plato's Camera: How the Physical Brain Captures a Landscape of Abstract Universals* (both published by the MIT Press); *Neurophilosophy at Work*; and other books.

### Praise for earlier editions

"To read this book with attention is not just to find out about philosophy, but to do it. Churchland has written the best introduction available, for students and for general readers."

—Margaret Boden, *Times Higher Education Supplement*

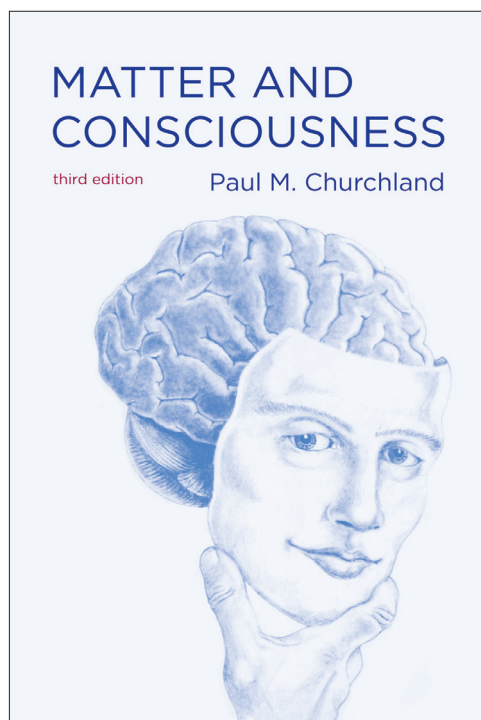
"This book is superb as an introductory text. Difficult matters are treated from an introductory perspective gracefully, interestingly, and with remarkably little in the way of distorting simplification. My prediction is that the word about this book will spread, and it will soon be a standard textbook."

—Ned Block, NYU

An updated edition of an authoritative text showing the relevance for philosophy of mind of theoretical and experimental results in the natural sciences.

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philosophy

## Feeling Extended

Sociality as Extended Body-Becoming-Mind

Douglas Robinson

The extended-mind thesis (EMT), usually attributed to Andy Clark and David Chalmers, proposes that in

**A new view of the extended mind thesis argues that a stark binary opposition between *really* extending and *seeming* to extend oversimplifies the issue.**

specific kinds of mind-body-world interaction there emerges an extended cognitive system incorporating such extracranial supports as pencils, papers, computers, and other objects

and environments in the world. In *Feeling Extended*, Douglas Robinson accepts the thesis, but argues that the usual debate over EMT—which centers on whether mind *really* (literally, actually, materially) extends to body and world or only *seems* to—oversimplifies the issue. When we say that mind *feels* as if it extends, Robinson argues, what extends is precisely feeling—and mind, insofar as it arises out of feeling.

Robinson explores the world of affect and conation as intermediate realms of being between the physical movements of body and the qualitative movements of mind. He shows that affect is transcranial and tends to become interpersonal conation. Affective-becoming-conative sociality, he argues, is in fact the primary area in which body-becoming-mind extends. To make his case, Robinson draws on a wide spectrum of philosophical thought—from the EMT and qualia debates among cognitivists to the prehistory of such debates in the work of Hegel and Peirce to continental challenges to Hegelianism from Bakhtin and Derrida—as well as on extensive empirical research in social psychology and important sociological theories of face (Goffman), ritual (Connerton), and habitus (Bourdieu).

**Douglas Robinson** is Chair Professor and Dean of the Arts Faculty at Hong Kong Baptist University.

September — 6 x 9, 264 pp.

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philosophy of mind

## Hallucination

Philosophy and Psychology

edited by Fiona Macpherson  
and Dimitris Platchias

Reflection on the nature of hallucination has relevance for many traditional philosophical debates concerning

**Scientific and philosophical perspectives on hallucination: essays that draw on empirical evidence from psychology, neuroscience, and cutting-edge philosophical theory.**

the nature of the mind, perception, and our knowledge of the world. In recent years, neuroimaging techniques and scientific findings on the nature of hallucination, combined with interest in new philosophical

theories of perception such as disjunctivism, have brought the topic of hallucination once more to the forefront of philosophical thinking. Scientific evidence from psychology, neuroscience, and psychiatry sheds light on the functional role and physiology of actual hallucinations; some disjunctivist theories offer a radically new and different philosophical conception of hallucination. This volume offers interdisciplinary perspectives on the nature of hallucination, offering essays by both scientists and philosophers.

Contributors first consider topics from psychology and neuroscience, including neurobiological mechanisms of hallucination and the nature and phenomenology of auditory-verbal hallucinations. Philosophical discussions follow, with contributors first considering disjunctivism and then, more generally, the relation between hallucination and the nature of experience.

**Fiona Macpherson** is Professor of Philosophy and Director of the Center for the Study of Perceptual Experience at the University of Glasgow. **Dimitris Platchias** is a Teaching Fellow in the Department of Philosophy at the University of York.

### Contributors

István Aranyosi, Richard P. Bentall, Paul Coates, Fabian Dorsch, Katalin Farkas, Charles Fernyhough, Dominic H. ffytche, Benj Hellie, Matthew Kennedy, Fiona Macpherson, Ksenija Maravic da Silva, Peter Naish, Simon McCarthy-Jones, Matthew Nudds, Costas Pagondiotis, Ian Phillips, Dimitris Platchias, Howard Robinson, Susanna Schellenberg, Filippo Varese

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bioethics/psychology

## Applied Ethics in Mental Health Care

An Interdisciplinary Reader

edited by **Dominic A. Sisti, Arthur L. Caplan, and Hila Rimon-Greenspan**

foreword by **Paul S. Appelbaum**

This book discusses some of the most critical ethical issues in mental health care today, including the moral dimensions of addiction,

**Discussions of key ethical dilemmas in mental health care, including consent, trauma and violence, addiction, confidentiality, and therapeutic boundaries.**

patient autonomy and compulsory treatment, privacy and confidentiality, and the definition of mental illness itself. Although debates over these issues are ongoing, there are few comprehensive resources for addressing such dilemmas in the practice of psychology, psychiatry, social work, and other behavioral and mental health care professions. This book meets that need, providing foundational background for undergraduate, graduate, and professional courses.

Topics include central questions such as evolving views of the morality and pathology of deviant behavior; patient competence and the decision to refuse treatment; recognizing and treating people who have suffered trauma; addiction as illness; the therapist's responsibility to report dangerousness despite patient confidentiality; and boundaries for the therapist's interaction with patients outside of therapy. For the most part the selections address contemporary issues in contemporary terms, but the book also offers a few historic or classic essays, including Thomas S. Szasz's controversial 1971 article "The Ethics of Addiction." Contributors include Laura Weiss Roberts, Frederic G. Reamer, Charles P. O'Brien, and Thomas McLellan.

**Dominic A. Sisti** is Director of the Scattergood Program for Applied Ethics of Behavioral Healthcare in the Department of Medical Ethics and Health Policy at the University of Pennsylvania's Perelman School of Medicine.

**Arthur L. Caplan** is Director of the Division of Medical Ethics in the Department of Population Health at New York University's Langone Medical Center. **Hila Rimon-Greenspan** is a researcher at Bizchut, the Israeli Human Rights Center for People with Disabilities.

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Basic Bioethics series

bioethics

## Research Misconduct Policy in Biomedicine

Beyond the Bad-Apple Approach

**Barbara Redman**

Federal regulations that govern research misconduct in biomedicine have not been able to prevent an ongoing

**An analysis of current biomedical research misconduct policy that proposes a new approach emphasizing the context of misconduct and improved oversight.**

series of high-profile cases of fabricating, falsifying, or plagiarizing scientific research.

In this book, Barbara Redman looks critically at current research misconduct policy and proposes a new

approach that emphasizes institutional context and improved oversight.

Current policy attempts to control risk at the individual level. But Redman argues that a fair and effective policy must reflect the context in which the behavior in question is embedded. As journalists who covered many research misconduct cases observed, the roots of fraud "lie in the barrel, not in the bad apples that occasionally roll into view." Drawing on literature in related fields—including moral psychology, the policy sciences, the organizational sciences, and law—as well as analyses of misconduct cases, Redman considers research misconduct from various perspectives. She also examines in detail a series of clinical research cases in which repeated misconduct went undetected and finds laxity of oversight, little attention to harm done, and inadequate correction of the scientific record. Study questions enhance the book's value for graduate and professional courses in research ethics.

Redman argues that the goals of any research misconduct policy should be to protect scientific capital (knowledge, scientists, institutions, norms of science), support fair competition, contain harms to end users and to the public trust, and enable science to meet its societal obligations.

**Barbara Redman** is Dean and Professor in the College of Nursing at Wayne State University. She is the author of *Advances in Patient Education*, *Advanced Practice Nursing Ethics in Chronic Disease Self-Management*, and other books.

October — 5 3/8 x 8, 200 pp.

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Basic Bioethics series

## Synthetic Biology and Morality

Artificial Life and the Bounds of Nature

edited by **Gregory E. Kaebnick**  
and **Thomas H. Murray**

Synthetic biology, which aims to design and build organisms that serve human needs, has potential appli-

**A range of views on the morality of synthetic biology and its place in public policy and political discourse.**

cations that range from producing biofuels to programming human behavior. The emergence of this new form of biotechnology, however, raises a variety

of ethical questions—first and foremost, whether synthetic biology is intrinsically troubling in moral terms. Is it an egregious example of scientists “playing God”? *Synthetic Biology and Morality* takes on this threshold ethical question, as well as others that follow, offering a range of philosophical and political perspectives on the power of synthetic biology.

The contributors consider the basic question of the ethics of making new organisms, with essays that lay out the conceptual terrain and offer opposing views of the intrinsic moral concerns; discuss the possibility that synthetic organisms are inherently valuable; and address whether, and how, moral objections to synthetic biology could be relevant to policy making and political discourse. Variations of these questions have been raised before, in debates over other biotechnologies, but, as this book shows, they take on novel and illuminating form when considered in the context of synthetic biology.

**Gregory E. Kaebnick** is a Research Scholar at the Hastings Center, editor of the Hastings Center Report, and editor of the book *The Ideal of Nature: Debates about Biotechnology and the Environment*. **Thomas H. Murray** is President Emeritus and Senior Research Scholar at the Hastings Center and author of *The Worth of a Child*.

### Contributors

John Basl, Mark A. Bedau, Joachim Boldt, John H. Evans, Bruce Jennings, Gregory E. Kaebnick, Ben Larson, Andrew Lustig, Jon Mandle, Thomas H. Murray, Christopher J. Preston, Ronald Sandler

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This unique introduction to econometrics provides undergraduate students with a command of regression

**An introductory textbook (requiring no previous knowledge of probability and statistics) that offers students a solid foundation in regression analysis.**

analysis in one semester, enabling them to grasp the empirical literature and undertake serious quantitative projects of their own. It does not assume any previous exposure to probability

and statistics but does discuss the concepts in these areas that are essential for econometrics. The bulk of the textbook is devoted to regression analysis, from simple to advanced topics. Students will gain an intuitive understanding of the mathematical concepts; Java applet simulations on the book's website demonstrate how the algebraic equations are derived in the text and are designed to reinforce the important concepts.

After presenting the essentials of probability and statistics, the book covers simple regression analysis, multiple regression analysis, and advanced topics including heteroskedasticity, autocorrelation, large sample properties, instrumental variables, measurement error, omitted variables, panel data, simultaneous equations, and binary/truncated dependent variables. Two optional chapters treat additional probability and statistics topics. Each chapter offers examples, prep problems (bringing students “up to speed” at the beginning of a chapter), review questions, and exercises. An accompanying website offers students easy access to Java simulations and data sets (available in EViews, Stata, and Excel files). After a single semester spent mastering the material presented in this book, students will be prepared to take any of the many elective courses that use econometric techniques.

**Frank Westhoff** is Professor of Economics at Amherst College.

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economics

## Open Economy Macroeconomics in Developing Countries

Carlos A. Végh

This rigorous and comprehensive textbook develops a basic small open economy model and shows how

**A comprehensive and rigorous text that shows how a basic open economy model can be extended to answer important macroeconomic questions that arise in emerging markets.**

it can be extended to answer many important macroeconomic questions that arise in emerging markets and developing economies, particularly those regarding monetary, fiscal, and exchange rate issues.

Eschewing the complex calibrated models on which the field of international finance increasingly relies, the book teaches the reader how to think in terms of simple models and grasp the fundamentals of open economy macroeconomics.

After analyzing the standard intertemporal small open economy model, the book introduces frictions such as imperfect capital markets, intertemporal distortions, and nontradable goods, into the basic model in order to shed light on the economy's response to different shocks. The book then introduces money into the model to analyze the real effects of monetary and exchange rate policy. It then applies these theoretical tools to a variety of important macroeconomic issues relevant to developing countries (and, in a world of continuing financial crisis, to industrial countries as well), including the use of a nominal interest rate as a main policy instrument, the relative merits of flexible and predetermined exchange rate regimes, and the targeting of "real anchors." Finally, the book analyzes in detail specific topics such as inflation stabilization, "dollarization," balance of payments crises, and, inspired by recent events, financial crises. Each chapter includes boxes with relevant empirical evidence and ends with exercises. The book is suitable for use in graduate courses in development economics, international finance, and macroeconomics.

**Carlos A. Végh** is Professor of Economics at the University of Maryland and a Research Associate at the National Bureau of Economic Research.

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economics/technology/law

## Digital Crossroads

Telecommunications Law and Policy in the Internet Age

Second Edition

**Jonathan E. Nuechterlein and Philip J. Weiser**

In *Digital Crossroads*, two experts on telecommunications policy offer a comprehensive and accessible analysis

**A thoroughly updated, comprehensive, and accessible guide to U.S. telecommunications law and policy, covering recent developments including mobile broadband issues, spectrum policy, and net neutrality.**

of the regulation of competition in the U.S. telecommunications industry. The first edition of *Digital Crossroads* (MIT Press, 2005) became an essential and uniquely readable guide for policymakers, lawyers, scholars, and students in a fast-moving

and complex policy field. In this second edition, the authors have revised every section of every chapter to reflect the evolution in industry structure, technology, and regulatory strategy since 2005.

The book features entirely new discussions of such topics as the explosive development of the mobile broadband ecosystem; incentive auctions and other recent spectrum policy initiatives; the FCC's net neutrality rules; the National Broadband Plan; the declining relevance of the traditional public switched telephone network; and the policy response to online video services and their potential to transform the way Americans watch television. Like its predecessor, this new edition of *Digital Crossroads* not only helps nonspecialists climb this field's formidable learning curve, but also makes substantive contributions to ongoing policy debates.

**Jonathan E. Nuechterlein** is chair of the telecommunications practice at the international law firm of WilmerHale. **Philip J. Weiser** is Dean of the Law School, Thompson Professor of Law and Telecommunications, and Founder and Executive Director of the Silicon Flatirons Center for Law, Technology, and Entrepreneurship at the University of Colorado Boulder. Both authors worked as law clerks on the U.S. Supreme Court (Nuechterlein for Justice Souter, and Weiser for Justices White and Ginsburg) and both have served in policy positions in the federal government.

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## The Atlas of Economic Complexity

Mapping Paths to Prosperity

Ricardo Hausmann, César A. Hidalgo, et al.

Why do some countries grow and others do not? The authors of *The Atlas of Economic Complexity* offer readers an explanation based on “Economic Complexity,” a measure of a society’s productive knowledge. Prosperous societies are those that have the knowledge to make a larger variety of more complex products. *The Atlas of Economic Complexity* attempts to measure the amount of productive knowledge countries hold and how they can move to accumulate more of it by making more complex products. Through the graphical representation of the “Product Space,” the authors are able to identify each country’s “adjacent possible,” or potential new products, making it easier to find paths to economic diversification and growth. In addition, they argue that a country’s economic complexity and its position in the product space are better predictors of economic growth than many other well-known development indicators, including measures of competitiveness, governance, finance, and schooling.

Using innovative visualizations, the book locates each country in the product space, provides complexity and growth potential rankings for 128 countries, and offers individual country pages with detailed information about a country’s current capabilities and its diversification options. The maps and visualizations included in the *Atlas* can be used to find more viable paths to greater productive knowledge and prosperity.

**Ricardo Hausmann** is Director of the Center for International Development at Harvard University, Professor of the Practice of Economic Development at Harvard Kennedy School, and George Cowan Professor at the Santa Fe Institute. **César A. Hidalgo** is ABC Career Development Professor at the MIT Media Lab.

“These diagrams are the early fruits of a new approach to the most important unsolved problem of the last century: how to make a rich country out of a poor one. . . . We can now visualize the differences between national economies in new ways.”

—Tim Harford, *The New York Times Magazine*

“Economists at Harvard University and Massachusetts Institute of Technology have just released what they claim to be the crystal ball of economics: a model for predicting a nation’s future growth more accurately than any other techniques out there.”

—*The Wall Street Journal*

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economics/business

## Firms in the International Economy

Firm Heterogeneity Meets  
International Business

edited by **Sjoerd Beugelsdijk, Steven Brakman, Hans van Ees, and Harry Garretsen**

Despite their common roots, international economics (IE) and international business (IB) have developed into two distinct fields of study. Economists have directed their efforts at formalizing the workings of international trade and investment at the macroeconomic level; business scholars have

**Essays by leading scholars suggest that insights from international business could enrich firm heterogeneity research in international economics.**

relied more on data-driven conceptual narratives than mathematical tools. But the recent focus of IE literature on firm heterogeneity suggests that IE would benefit from IB analyses of the behavior and organization of the internationalizing firm. The contributions to this volume investigate ways that insights from IB can enrich IE research in firm heterogeneity.

The contributors discuss firm-specific advantages in international trade and investment, considering the firm as the unit of analysis and managerial inputs as a variable in market entry decisions; analyze interactions between a firm and its external environment, including local corporate philanthropy and institutional settings; examine the boundaries of the firm and organizational choices such as the make-or-buy decision; and investigate technology transfer and innovation offshoring, discussing the role of subsidiaries, inventor employment, and other related topics.

Although IE and IB look at international firms from different perspectives, these contributions make it clear that there is a potential for a productive exchange of insights and information between the two disciplines.

**Sjoerd Beugelsdijk** is Professor of International Business at the University of Groningen, the Netherlands.

**Steven Brakman** is Professor of International Economics at the University of Groningen. **Hans van Ees** is Professor of Global Economics and Management at the University of Groningen. **Harry Garretsen** is Professor of International Economics and Business at the University of Groningen.

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CESifo Seminar series

economics/public policy

## Lessons from the Economics of Crime

What Reduces Offending?

edited by **Philip J. Cook, Stephen Machin, Olivier Marie, and Giovanni Mastrobuoni**

Economists who bring the tools of economic analysis to bear on the study of crime and crime prevention contribute to current debates a normative framework and sophisticated quantitative methods for evaluating policy, the idea of criminal behavior as rational choice, and the connection of individual choices to aggregate outcomes.

**Research from the United States, Europe, and South America demonstrates the usefulness of the tools of economic analysis for the study of crime.**

The contributors to this volume draw on all three of these approaches in their investigations and discuss the policy implications of their findings.

Reporting on research in the United States, Europe, and South America, the chapters discuss such topics as a cost-benefit analysis of additional police hiring, the testing of innovative policy interventions through field experiments, imprisonment and recidivism rates, incentives and disincentives for sports hooliganism (“hooliganomics”), data showing the influence of organized crime on the quality of local politicians, and the (scant) empirical evidence for the effect of immigration on crime. These contributions demonstrate the eclectic approach of economists studying crime as well as their increasing respect for the contributions of other social scientists in this area.

**Philip J. Cook** is Professor of Public Policy Economics, and Sociology at Duke University, and Codirector of the NBER Crime Working Group. **Stephen Machin** is Professor of Economics at University College London and Research Director of the Centre for Economic Performance at the London School of Economics. **Olivier Marie** is Assistant Professor of Economics at Maastricht University. **Giovanni Mastrobuoni** is Assistant Professor of Economics at the Collegio Carlo Alberto, Turin.

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CESifo Seminar series

economics/political science

innovation/business

## Global Interdependence, Decoupling, and Recoupling

An Overview

edited by Yin-Wong Cheung  
and Frank Westermann

One lens through which to view global economic interdependence and the spillover of shocks is that of decoupling (and then recoupling) between developed and developing countries. Decoupling can be seen in the strong economic performance of China and India

**Investigations of the propagation and influence of global shocks among the economies of developed and developing countries.**

relative to that of the United States and Europe in the early 2000s. Recoupling then took place as developing countries sank along with the developed world during the deepening financial crisis of 2008. This volume examines patterns of global economic interdependence and the propagation of shocks in an increasingly integrated world economy.

The contributors discuss such topics as the transmission of exogenous shocks; causes of business cycle synchronicity; the differences between global and regional shocks; the South-South trade relationship and its effect on decoupling; vertical specialization and Mexico's manufacturing exports; growth prospects in China, the United States, and Europe after the financial crisis; and the evolving role of the U.S. dollar in international monetary architecture.

**Yin-Wong Cheung** is Chair Professor of the Department of Economics and Finance and Director of the Research Center for International Economics at the City University of Hong Kong. **Frank Westermann** is Professor of Economics and Director of the Institute of Empirical Economic Research at Osnabrueck University, Germany.

### Contributors

Helge Berger, Rossella Calvi, Yin-Wong Cheung, Gianluca Cubadda, Justino De La Cruz, Filippo di Mauro, Michael Dooley, Eiji Fujii, Linda S. Goldberg, Barbara Guardabascio, Alain Hecq, Hideaki Hirata, Robert B. Koopman, M. Ayhan Kose, Marco J. Lombardi, Steven Lugauer, Nelson C. Mark, Volker Nitsch, Christopher Otrok, Tuomas Antero Peltonen, Gabor Pula, Pierre L. Siklos, Zhi Wang, Shang-Jin Wei, Frank Westermann

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## Production in the Innovation Economy

edited by Richard M. Locke  
and Rachel L. Wellhausen

*Production in the Innovation Economy* emerges from several years of interdisciplinary research at MIT on the links

**Reports from an ambitious MIT research project that makes the case for encouraging the collocation of manufacturing and innovation.**

between manufacturing and innovation in the United States and the world economy. (This ambitious research project is described in *Making in America: From Innovation to Market*, also published in 2013 by

the MIT Press.) Authors from political science, economics, business, employment and operations research, aeronautics and astronautics, mechanical engineering, and nuclear engineering come together to explore the extent to which manufacturing is key to an innovative and vibrant economy.

Chapters include survey research on gaps in worker skill development and training; discussions of coproduction with Chinese firms and participation in complex manufacturing projects in China; analyses of constraints facing American start-up firms involved in manufacturing; proposals for a future of distributed manufacturing and a focus on product variety as a marker of innovation; and forecasts of powerful advanced manufacturing technologies on the horizon. The chapters show that although the global distribution of manufacturing is not an automatic loss for the United States, gains from the collocation of manufacturing and innovation have not disappeared.

**Richard M. Locke** is Class of 1992 Professor of Political Science at the Massachusetts Institute of Technology.

**Rachel L. Wellhausen** is Assistant Professor of Government at the University of Texas at Austin.

### Contributors

Joyce Lawrence, Richard K. Lester, Richard M. Locke, Florian Metzler, Jonas Nahm, Paul Osterman, Elisabeth B. Reynolds, Donald B. Rosenfeld, Hiram M. Samel, Sanjay E. Sarma, Edward S. Steinfeld, Andrew Weaver, Rachel L. Wellhausen, Olivier de Weck

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economics

## Big Ideas in Macroeconomics

A Nontechnical View

**Kartik B. Athreya**

Macroeconomists have been caricatured either as credulous savants in love with the beauty of their mathematical models or as free-market fundamentalists who admit no doubt as to the market's wisdom. In this book, Kartik Athreya draws a truer picture, offering a nontechnical description of prominent ideas and models in macroeconomics, arguing for their value as interpretive tools as well as their policy relevance. Athreya deliberately leaves out the technical machinery, providing students new to modern macroeconomics as well as readers with no formal training in economics or mathematics—including economic writers and policymakers—with an essential guide to the sometimes abstract ideas that drive macroeconomists' research and practical policy advice.

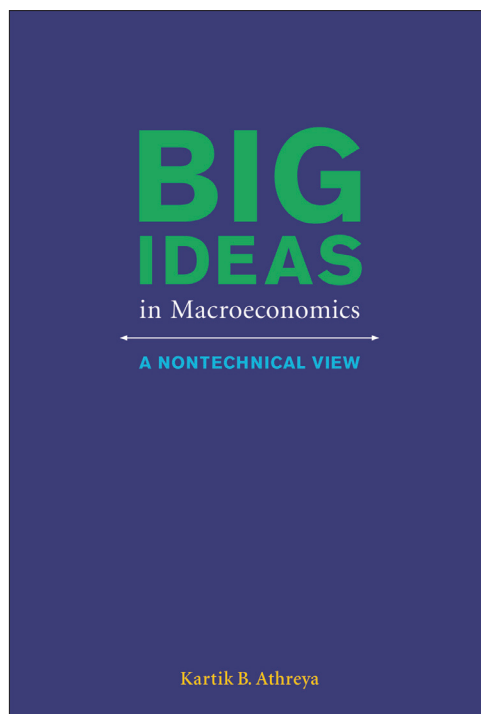
Athreya describes the main approach to macroeconomic model construction, the foundational Walrasian general equilibrium framework, and its modern version, the Arrow-Debreu-McKenzie (ADM) model. He then explains the reasons for the relevance of this model for interpreting real-world outcomes, and lays out the so-called Fundamental Theorems of Welfare Economics. In the heart of the book, Athreya shows how the Walrasian approach shapes and unifies much of modern macroeconomics. He details models central to ongoing macroeconomic analyses: the neo-classical and stochastic growth models, the standard incomplete-markets model, the overlapping-generations model, and the standard search model. Athreya's accessible primer traces the links between the views and policy advice of modern macroeconomists and their shared theoretical approach.

**Kartik B. Athreya** is a Group Vice President in the Research Department of the Federal Reserve Bank of Richmond and an Associate Editor of the *Journal of Economic Dynamics and Control*.

**An accessible description of modern macroeconomics, and a defense of its policy relevance.**

January  
6 x 9, 432 pp.  
3 illus.

**\$40.00S/£27.95 cloth**  
978-0-262-01973-6



## Deliberating American Monetary Policy

A Textual Analysis

Cheryl Schonhardt-Bailey

American monetary policy is formulated by the Federal Reserve and overseen by Congress. Both policy making and oversight are deliberative processes, although the effect of this deliberation has been difficult to quantify. In this book, Cheryl Schonhardt-Bailey provides a systematic examination of deliberation on monetary policy from 1976 to 2008 by the Federal Reserve's Open Market Committee (FOMC) and House and Senate banking committees. Her innovative account employs automated textual analysis software to study the verbatim transcripts of FOMC meetings and congressional hearings; these empirical data are supplemented and supported by in-depth interviews with participants in these deliberations. The automated textual analysis measures the characteristic words, phrases, and arguments of committee members; the interviews offer a way to gauge the extent to which the empirical findings accord with the participants' personal experiences.

Analyzing why and under what conditions deliberation matters for monetary policy, the author identifies several strategies of persuasion used by FOMC members, including Paul Volcker's emphasis on policy credibility and efforts to influence economic expectations. Members of Congress, however, constrained by political considerations, show a relative passivity on the details of monetary policy.

**Cheryl Schonhardt-Bailey** is Professor of Political Science at the London School of Economics and Political Science. She is the author of *From the Corn Laws to Free Trade: Interests, Ideas, and Institutions in Historical Perspective* (MIT Press).

November — 6 x 9, 488 pp. — 74 illus.  
**\$50.00S/£34.95 cloth**  
 978-0-262-01957-6

## The News Gap

When the Information Preferences of the Media and the Public Diverge

Pablo J. Boczkowski and Eugenia Mitchelstein

The sites of major media organizations—CNN, *USA Today*, the *Guardian*, and others—provide the public with much of the online news they consume. But although a large proportion of the top stories these sites disseminate cover politics, international relations, and economics, users of these sites show a preference (as evidenced by the most viewed stories) for news about sports, crime, entertainment, and weather. In this book, Pablo Boczkowski and Eugenia Mitchelstein examine this gap and consider the implications for the media industry and democratic life in the digital age.

Drawing on analyses of almost 40,000 stories posted on twenty news sites in seven countries in North and South America and Western Europe, Boczkowski and Mitchelstein find that the gap in news preferences exists regardless of ideological orientation or national media culture. They show that it narrows in times of heightened political activity (including presidential elections or government crises) as readers feel compelled to inform themselves about public affairs but remains wide during times of normal political activity. Boczkowski and Mitchelstein also find that the gap is not affected by innovations in web-native forms of storytelling such as blogs and user-generated content on mainstream news sites. Drawing upon these findings, they explore the news gap's troubling consequences for the matrix that connects communication, technology, and politics in the digital age.

**Pablo J. Boczkowski** is Professor and Director of the Program in Media, Technology, and Society at Northwestern University. He is the author of *Digitizing the News: Innovation in Online Newspapers* (MIT Press) and *News at Work: Imitation in an Age of Information Abundance*. **Eugenia Mitchelstein** is a PhD candidate in the Program in Media, Technology, and Society at Northwestern University.

December — 6 x 9, 272 pp. — 52 illus.  
**\$34.00S/£23.95 cloth**  
 978-0-262-01983-5

environment/political science

## American Environmental Policy

Beyond Gridlock

Updated and Expanded Edition

**Christopher McGrory Klyza and David J. Sousa**

The “golden era” of American environmental law-making in the 1960s and 1970s saw twenty-two pieces

**An updated investigation of alternate pathways for American environmental policymaking made necessary by legislative gridlock.**

of major environmental legislation (including the Clean Air Act, the Clean Water Act, and the Endangered Species Act) passed by bipartisan majorities in Congress and signed into law by

presidents of both parties. But since then partisanship, the dramatic movement of Republicans to the right, and political brinkmanship have led to legislative gridlock on environmental issues. In this book, Christopher Klyza and David Sousa argue that the longstanding legislative stalemate at the national level has forced environmental policymaking onto other pathways.

Klyza and Sousa identify and analyze five alternative policy paths, which they illustrate with case studies from 1990 to the present: “appropriations politics” in Congress; executive authority; the role of the courts; “next-generation” collaborative experiments; and policymaking at the state and local levels. This updated edition features a new chapter discussing environmental policy developments from 2006 to 2012, including intensifying partisanship on the environment, the failure of Congress to pass climate legislation, the ramifications of *Massachusetts v. EPA*, and other Obama administration executive actions (some of which have reversed Bush administration executive actions). Yet, they argue, despite legislative gridlock, the legacy of 1960s and 1970s policies has created an enduring “green state” rooted in statutes, bureaucratic routines, and public expectations.

**Christopher McGrory Klyza** is Robert '35 and Helen '38 Stafford Professor of Public Policy and Professor of Political Science and Environmental Studies at Middlebury College. **David J. Sousa** is Professor in the Department of Politics and Government at the University of Puget Sound.

September — 6 x 9, 456 pp. — 2 illus.

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American and Comparative Environmental Policy series

environment/management/architecture

## Constructing Green

The Social Structures of Sustainability

**edited by Rebecca L. Henn  
and Andrew J. Hoffman**

foreword by Nicole Woolsey Biggart

Buildings are the nation’s greatest energy consumers. Forty percent of all our energy is used for heating,

**Experts consider green construction and the social, institutional, and cultural changes associated with it, through a sociological and organizational lens.**

cooling, lighting, and powering machines and devices in buildings. And despite decades of investment in green construction technologies, residential and commercial buildings

remain stubbornly energy inefficient. This book looks beyond the technological and material aspects of green construction to examine the cultural, social, and organizational shifts that sustainable building requires.

The contributors consider the changes associated with green building through a sociological and organizational lens. They discuss shifts in professional expertise created by new social concerns about green building, including evolving boundaries of professional jurisdictions; changing industry strategies and structures, including the roles of ownership, supply firms, and market niches; new operational, organizational, and cultural arrangements, including the mainstreaming of environmental concerns; narratives and frames that influence the perception of green building; and future directions for the theory and practice of sustainable construction. The essays offer uniquely multidisciplinary insights into the transformative potential of green building and the obstacles that must be overcome to make it the norm.

**Rebecca L. Henn** is Assistant Professor of Architecture at the Pennsylvania State University, doctoral candidate at the University of Michigan, and a principal in the firm Celento Henn Architects and Designers. **Andrew J. Hoffman** is Holcim (US) Professor of Sustainable Enterprise at the University of Michigan, with joint appointments at the Stephen M. Ross School of Business and the School of Natural Resources and Environment. He is the author of *Carbon Strategies: How Leading Companies Are Reducing Their Climate Change Footprint* and other books.

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Urban and Industrial Environments series

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Reconciling Air Quality, Climate, and Economic Goals

edited by **Chris P. Nielsen and Mun S. Ho**

**A groundbreaking U.S.–Chinese inquiry into the effects of recent air pollution controls and prospective carbon taxes on China’s economy and environment.**

September  
7 x 9, 400 pp.  
13 color illus.,  
100 black & white illus.  
**\$50.00S/£34.95 cloth**  
978-0-262-01988-0

China’s carbon dioxide emissions now outstrip those of other countries and its domestic air quality is severely degraded, especially in urban areas. Its sheer size and its growing, fossil-fuel-powered economy mean that China’s economic and environmental policy choices will have an outsized effect on the global environmental future. Over the last decade, China has pursued policies that target both fossil fuel use and atmospheric emissions, but these efforts have been substantially overwhelmed by the country’s increasing energy demands. With a billion citizens still living on less than \$4,000 per year, China’s energy and environmental policies must be reconciled with the goals of maintaining economic growth and raising living standards.

This book, a U.S.–Chinese collaboration, offers a groundbreaking integrated analysis of China’s economy, emissions, air quality, public health, and agriculture. It first offers essential scientific context and accessible summaries of the book’s policy findings and then provides the underlying scientific and economic research. These studies suggest that China’s recent sulfur controls achieved enormous environmental health benefits at unexpectedly low costs. They also indicate that judicious implementation of carbon taxes could reduce not only China’s carbon emissions but also its air pollution more comprehensively than current policies, all at little cost to economic growth.

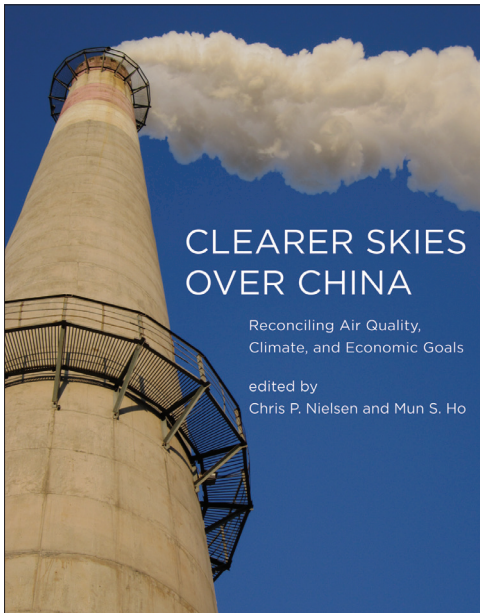
**Chris P. Nielsen** is Executive Director of the Harvard China Project in Harvard University’s School of Engineering and Applied Sciences. **Mun S. Ho** is Visiting Scholar at Harvard’s Institute for Quantitative Social Science and at Resources for the Future, Washington, D.C. Nielsen and Ho are coeditors of *Clearing the Air: The Health and Economic Damages of Air Pollution in China* (MIT Press).

### Contributors

Jing Cao, Kebin He, Mun S. Ho, Dale W. Jorgenson, Yu Lei, Chris P. Nielsen, Yuxuan Wang, Wei Wei, Qiang Zhang, Yu Zhao

“The integrated analytical approach taken in this book is a remarkable effort. This is the clearest and best book I have read on air pollution in China, and the only one to tackle the issue in such an authoritative and comprehensive way. It gives a clear sense of how to put substance on the possibilities and benefits of a low-carbon economy while still pursuing substantial economic growth.”

—**Arthur J. Hanson, International Chief Advisor, China Council on International Cooperation on Environment and Development**



environment/social science

urban studies/environment

## The Power of Narrative in Environmental Networks

Raul Lejano, Mrill Ingram, and Helen Ingram

For as long as humans have lived in communities, storytelling has bound people to each other and to their environments. In recent times, scholars have noted how social networks arise around issues of resource and ecological management. In this book, Raul Lejano, Mrill Ingram, and Helen Ingram argue that stories, or narratives, play a key role in these networks—that environmental communities “narrate themselves into existence.”

The authors present three case studies that demonstrate the power of narrative and narratology in the analysis of environmental networks: a conservation network in the Sonoran Desert, which achieved some success despite U.S.-Mexico border issues; a narrative that bridged differences between community and scientists in the Turtle Islands; and networks of researchers and farmers who collaborated to develop and sustain alternative agriculture practice in the face of government inaction. These cases demonstrate that by paying attention to language and storytelling, we can improve our understanding of environmental behavior and even change it in positive ways.

**Raul Lejano** is Associate Professor in the Department of Planning, Policy, and Design at the University of California, Irvine. **Mrill Ingram**, a PhD in Geography, is an independent scholar in Madison, Wisconsin. **Helen Ingram** is Professor Emeritus at the University of California, Irvine.

“This book is quite important, in that it opens the path to new ways of studying social interactions of all kinds, a path that blends detailed interviews with what is in the end a literary sensibility. . . . I thank the authors for an enjoyable read.”  
—**Robert Paehlke, Professor Emeritus, Environmental and Resource Studies, Trent University**

August — 6 x 9, 240 pp. — 5 illus.  
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American and Comparative Environmental Policy series

## Sustainable Urban Metabolism

Paulo C. Ferrão and John E. Fernández

Urbanization and globalization have shaped the last hundred years. These two dominant trends are mutually reinforcing: globalization links countries through the networked communications of urban hubs. The urban population now generates more than eighty percent of global GDP. Cities account for enormous flows of energy and materials—inflows of goods and services and outflows of waste. Thus urban environmental management critically affects global sustainability. In this book, Paulo Ferrão and John Fernández offer a metabolic perspective on urban sustainability, viewing the city as a metabolism, in terms of its exchanges of matter and energy. Their book provides a roadmap to the strategies and tools needed for a scientifically based framework for analyzing and promoting the sustainability of urban systems.

Using the concept of urban metabolism as a unifying framework, Ferrão and Fernandez describe a systems-oriented approach that establishes useful linkages among environmental, economic, social, and technical infrastructure issues. These linkages lead to an integrated information-intensive platform that enables ecologically informed urban planning. After establishing the theoretical background and describing the diversity of contributing disciplines, the authors sample sustainability approaches and tools, offer an extended study of the urban metabolism of Lisbon, and outline the challenges and opportunities in approaching urban sustainability in both developed and developing countries.

**Paulo C. Ferrão** is Professor of Mechanical Engineering at the Instituto Superior Técnico, Lisbon, and Director of the MIT Portugal Program. **John E. Fernández** is Associate Professor and Director of the Building Technology Program in the Department of Architecture at MIT and Director of MIT's International Design Center.

September — 7 x 9, 256 pp. — 37 illus.  
**\$35.00S/£24.95 cloth**  
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urban studies/geography

linguistics

## The New Science of Cities

Michael Batty

In *The New Science of Cities*, Michael Batty suggests that to understand cities we must view them not simply as

**A proposal for a new way to understand cities and their design not as artifacts but as systems composed of flows and networks.**

places in space but as systems of networks and flows. To understand space, he argues, we must understand flows, and to understand flows, we must understand

networks—the relations between objects that comprise the system of the city. Drawing on the complexity sciences, social physics, urban economics, transportation theory, regional science, and urban geography, and building on his own previous work, Batty introduces theories and methods that reveal the deep structure of how cities function.

Batty presents the foundations of a new science of cities, defining flows and their networks and introducing tools that can be applied to understanding different aspects of city structure. He examines the size of cities, their internal order, the transport routes that define them, and the locations that fix these networks. He introduces methods of simulation that range from simple stochastic models to bottom-up evolutionary models to aggregate land-use transportation models. Then, using largely the same tools, he presents design and decision-making models that predict interactions and flows in future cities. These networks emphasize a notion with relevance for future research and planning: that design of cities is collective action.

**Michael Batty** is Bartlett Professor of Planning at University College London, where he is Chairman of the Centre for Advanced Spatial Analysis (CASA), and Visiting Distinguished Professor at Arizona State University. He is the coauthor of *Fractal Cities: A Geometry of Form and Function* and the author of *Cities and Complexity: Understanding Cities with Cellular Automata, Agent-Based Models, and Fractals* (MIT Press).

November — 7 x 9, 520 pp. — 135 illus.

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978-0-262-01952-1

## Russian Case Morphology and the Syntactic Categories

David Pesetsky

In this book, David Pesetsky argues that the peculiarities of Russian nominal phrases provide significant clues

**A proposal for a radical new view of case morphology, supported by a detailed investigation of some of the thorniest topics in Russian grammar.**

concerning the syntactic side of morphological case. Pesetsky argues against the traditional view that case categories such as nominative or genitive have a special status in the grammar of

human languages. Supporting his argument with a detailed analysis of a complex array of morpho-syntactic phenomena in the Russian noun phrase (with brief excursions to other languages), he proposes instead that the case categories are just part-of-speech features copied as morphology from head to dependent as syntactic structure is built.

Pesetsky presents a careful investigation of one of the thorniest topics in Russian grammar, the morpho-syntax of noun phrases with numerals (including those traditionally called the paucals). He argues that these bewilderingly complex facts can be explained if case categories are viewed simply as parts of speech, assigned as morphology. Pesetsky's analysis is notable for offering a new theoretical perspective on some of the most puzzling areas of Russian grammar, a highly original account of nominal case that significantly affects our understanding of an important property of language.

**David Pesetsky** is Ferrari P. Ward Professor of Modern Languages and Linguistics and Margaret MacVicar Faculty Fellow at MIT. He is the author of *Zero Syntax: Experiencers and Cascades* and *Phrasal Movement and Its Kin*, both published by the MIT Press. Pesetsky is a Fellow of the American Association for the Advancement of Science and was recently elected a Fellow of the Linguistic Society of America.

January — 6 x 9, 180 pp.

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Linguistic Inquiry Monographs series



linguistics

## Subjunctive Conditionals

A Linguistic Analysis

Michela Ippolito

In this book, Michela Ippolito proposes a compositional semantics for subjunctive (or *would*) conditionals in

**A proposal for a compositional semantics for subjunctive (or *would*) conditionals in English.**

English that accounts for their felicity conditions and the constraints on the satisfaction of their presuppositions by capitalizing on the

occurrence of past tense morphology in both antecedent and consequent clauses. Very little of the extensive literature on subjunctive conditionals tries to account for the meaning of these sentences compositionally or to relate this meaning to their linguistic form; this book fills that gap, connecting the different lines of research on conditionals. Ippolito's proposal will be of interest both to linguists and to philosophers concerned with conditionals and modality more generally.

Ippolito reviews previous analyses of counterfactuals and subjunctive conditionals in the work of David Lewis, Robert Stalnaker, Angelika Kratzer, and others; considers the contrast between future simple past subjunctive conditionals and future past perfect subjunctive conditionals; presents a proposal for subjunctive conditionals that addresses puzzles left unsolved by previous proposals; reviews a number of presupposition triggers showing that they fit the pattern predicted by her proposal; and discusses an asymmetry between the past and the future among subjunctive conditionals, arguing that the best account of our linguistic intuitions must include an indeterministic view of the world.

**Michela Ippolito** is Associate Professor of Linguistics at the University of Toronto.

October — 6 x 9, 248 pp.

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Linguistic Inquiry Monographs series

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## Distributed Morphology Today

Morphemes for Morris Halle

edited by Ora Matushansky and Alec Marantz

This collection offers a snapshot of current research in Distributed Morphology, highlighting the lasting influence of Morris Halle,

**Essays that offer original theoretical contributions in Distributed Morphology and highlight the lasting influence of Morris Halle, a founder of the field.**

a pioneer in generative linguistics. Distributed Morphology, which integrates the morphological with the syntactic, originated in Halle's work. These essays,

written to mark his 90th birthday, make original theoretical contributions to the field and emphasize Halle's foundational contributions to the study of morphology.

The authors primarily focus on the issues of locality, exploring the tight connection of morphology to phonology, syntax and semantics that lies at the core of Distributed Morphology. The nature of phases, the notion of a morpho-syntactic feature, allomorphy and exponence, the synthetic/analytic alternation, stress assignment, and syntactic agreement are all shown to link to more than one grammatical module.

Animated discussion with students has been central to Halle's research, and the development of Distributed Morphology has been shaped and continued by his students, many of whom have contributed to this volume. Halle's support, advice, and enthusiasm encouraged the research exemplified here. In the Hallean tradition, these papers are sure to inspire all generations of morphologists.

**Ora Matushansky** is Director of Research at the Centre National de Recherche Scientifique, France, and Senior Research Fellow of Utrecht University, the Netherlands.

**Alec Marantz** is Professor of Linguistics and Psychology at New York University.

### Contributors

Karlos Arregi, Jonathan David Bobaljik, Eulàlia Bonet, David Embick, Daniel Harbour, Heidi Harley, Alec Marantz, Tatjana Marvin, Ora Matushansky, Martha McGinnis, Andrew Nevins, Rolf Noyer, Isabel Oltra-Massuet, Mercedes Tubino Blanco, Susi Wurmbrand

August — 6 x 9, 278 pp.

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computer science

## Introduction to Computation and Programming Using Python

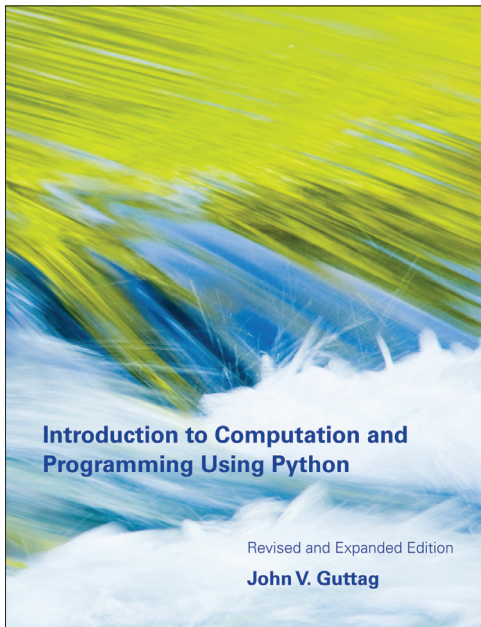
Revised and Expanded Edition

John V. Guttag

An introductory text that teaches students the art of computational problem solving, covering topics that range from simple algorithms to information visualization.

August  
8 1/2 x 11, 296 pp.  
117 illus.

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978-0-262-52500-8



This book introduces students with little or no prior programming experience to the art of computational problem solving using Python and various Python libraries, including PyLab. It provides students with skills that will enable them to make productive use of computational techniques, including some of the tools and techniques of “data science” for using computation to model and interpret data. The book is based on an MIT course (which became the most popular course offered through MIT’s OpenCourseWare) and was developed for use not only in a conventional classroom but in a massive open online course (or MOOC) offered by the pioneering MIT-Harvard collaboration edX.

Students are introduced to Python and the basics of programming in the context of such computational concepts and techniques as exhaustive enumeration, bisection search, and efficient approximation algorithms. The book does not require knowledge of mathematics beyond high school algebra, but does assume that readers are comfortable with rigorous thinking and not intimidated by mathematical concepts. Although it covers such traditional topics as computational complexity and simple algorithms, the book focuses on a wide range of topics not found in most introductory texts, including information visualization, simulations to model randomness, computational techniques to understand data, and statistical

techniques that inform (and misinform) as well as two related but relatively advanced topics: optimization problems and dynamic programming.

*Introduction to Computation and Programming Using Python* can serve as a stepping-stone to more advanced computer science courses, or as a basic grounding in computational problem solving for students in other disciplines.

**John V. Guttag** is the Dugald C. Jackson Professor of Computer Science and Electrical Engineering at MIT.

“There’s no such thing as the only computer science book you’ll ever need. But if you had to pick only one, this would be a great choice. You’ll begin by getting a solid introduction to programming in Python. Armed with that, you’ll go hands-on with important computing ideas like random methods, statistics, and optimization, using tools of great theoretical beauty and great practical importance.”

—**Hal Abelson, coauthor (with Gerald Jay Sussman) of *Structure and Interpretation of Computer Programs***

“This is the ‘computational thinking’ book we have all been waiting for! With humor and historical anecdotes, Guttag conveys the breadth and joy of computer science without compromise to technical detail. This book is perfect for any student who wants to explore the essence of computer science.”

—**Jeannette M. Wing, President’s Professor of Computer Science and Department Head, Carnegie Mellon University**

computer science

## Finite State Machines in Hardware

Theory and Design  
(with VHDL and SystemVerilog)

**Volnei A. Pedroni**

Modern, complex digital systems invariably include hardware-implemented finite state machines. The correct design of such parts is crucial for attaining proper system performance. This book offers detailed, comprehensive coverage of the theory and design for any category of hardware-implemented finite state machines. It describes crucial design problems that lead to incorrect or far from optimal implementation and provides examples of finite state machines developed in both VHDL and SystemVerilog (the successor of Verilog) hardware description languages.

Important features include: extensive review of design practices for sequential digital circuits; a new division of all state machines into three hardware-based categories, encompassing all possible situations, with numerous practical examples provided in all three categories; the presentation of complete designs, with detailed VHDL and SystemVerilog codes, comments, and simulation results, all tested in FPGA devices; and exercise examples, all of which can be synthesized, simulated, and physically implemented in FPGA boards. Additional material is available on the book's website.

Designing a state machine in hardware is more complex than designing it in software. Although interest in hardware for finite state machines has grown dramatically in recent years, there is no comprehensive treatment of the subject. This book offers the most detailed coverage of finite state machines available. It will be essential for industrial designers of digital systems and for students of electrical engineering and computer science.

**Volnei A. Pedroni** is Professor of Electronics Engineering at Brazil's Federal University of Technology. He is the author of *Circuit Design and Simulation with VHDL* (MIT Press).

November — 7 x 9, 400 pp. — 199 illus.

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978-0-262-01966-8

robotics

## Robotics

Science and Systems VIII

edited by **Nicholas Roy, Paul Newman,**  
and **Siddhartha Srinivasa**

*Robotics: Science and Systems VIII* spans a wide spectrum of robotics, bringing together contributions from

**Papers from a flagship conference reflect the latest developments in the field, including work in such rapidly advancing areas as human-robot interaction and formal methods.**

researchers working on the mathematical foundations of robotics, robotics applications, and analysis of robotics systems. This volume presents the proceedings of the eighth annual Robotics: Science and

Systems (RSS) conference, held in July 2012 at the University of Sydney. The contributions reflect the exciting diversity of the field, presenting the best, the newest, and the most challenging work on such topics as mechanisms, kinematics, dynamics and control, human-robot interaction and human-centered systems, distributed systems, mobile systems and mobility, manipulation, field robotics, medical robotics, biological robotics, robot perception, and estimation and learning in robotic systems. The conference and its proceedings reflect not only the tremendous growth of robotics as a discipline but also the desire in the robotics community for a flagship event at which the best of the research in the field can be presented.

**Nicholas Roy** is Associate Professor of Aeronautics and Astronautics at MIT and General Chair of RSS 2012.

**Paul Newman** is BP Professor of Information Engineering at the University of Oxford and Program Chair of RSS 2012.

**Siddhartha Srinivasa** is Associate Professor in the Robotics Institute at Carnegie Mellon and Publications Chair of RSS 2012.

August — 8 1/2 x 11, 504 pp. — 474 illus.

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### Robotics

Science and Systems VI

edited by **Yoky Matsuoka, Hugh Durrant-Whyte,**  
and **José Neira**

2011, 978-0-262-51681-5  
\$80.00S/£55.95 paper

### Robotics

Science and Systems VII

edited by **Hugh Durrant-Whyte, Nicholas Roy,**  
and **Pieter Abbeel**

2012, 978-0-262-51779-9  
\$75.00S/£51.95 paper

mathematics

cognitive science/archaeology

## Functional Differential Geometry

Gerald Jay Sussman and Jack Wisdom

with Will Farr

Physics is naturally expressed in mathematical language. Students new to the subject must simultaneously learn

**An explanation of the mathematics needed as a foundation for a deep understanding of general relativity or quantum field theory.**

an idiomatic mathematical language and the content that is expressed in that language. It is as if they were asked to read *Les Misérables* while struggling with French grammar. This book

offers an innovative way to learn the differential geometry needed as a foundation for a deep understanding of general relativity or quantum field theory as taught at the college level.

The approach taken by the authors (and used in their classes at MIT for many years) differs from the conventional one in several ways, including an emphasis on the development of the covariant derivative and an avoidance of the use of traditional index notation for tensors in favor of a semantically richer language of vector fields and differential forms. But the biggest single difference is the authors' integration of computer programming into their explanations. By programming a computer to interpret a formula, the student soon learns whether or not a formula is correct. Students are led to improve their program, and as a result improve their understanding.

**Gerald Jay Sussman** is Panasonic (formerly Matsushita) Professor of Electrical Engineering in the Department of Electrical Engineering and Computer Science at MIT and the coauthor (with Hal Abelson) of *Structure and Interpretation of Computer Programs* (MIT Press). **Jack Wisdom** is Professor of Planetary Science in the Department of Earth, Atmospheric, and Planetary Sciences at MIT. Sussman and Wisdom are the coauthors of *Structure and Interpretation of Classical Mechanics* (MIT Press). **Will Farr** is a CIERA Fellow at Northwestern University.

August — 6 x 9, 248 pp. — 8 illus.

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## How Things Shape the Mind

A Theory of Material Engagement

Lambros Malafouris

foreword by Colin Renfrew

An increasingly influential school of thought in cognitive science views the mind as embodied, extended,

**An account of the different ways in which things have become cognitive extensions of the human body, from prehistory to the present.**

and distributed, rather than brain-bound, “all in the head.” This shift in perspective raises important questions about the relationship between cognition and material culture, posing major

challenges for philosophy, cognitive science, archaeology, and anthropology. In *How Things Shape the Mind*, Lambros Malafouris proposes a cross-disciplinary analytical framework for investigating the different ways in which things have become cognitive extensions of the human body. Using a variety of examples and case studies, he considers how those ways might have changed from earliest prehistory to the present. Malafouris's Material Engagement Theory adds materiality—the world of things, artifacts, and material signs—into the cognitive equation definitively. His account not only questions conventional intuitions about the boundaries and location of the human mind but also suggests that we rethink classical archaeological assumptions about human cognitive evolution.

Arguing that the understanding of human cognition is essentially interlocked with the study of the technical mediations that constitute the central nodes of a materially extended and distributed human mind, Malafouris offers a series of archaeological and anthropological case studies—from Stone Age tools to the modern potter's wheel—to test his theory. How do things shape the mind? Considering the implications of the seemingly uniquely human predisposition to reconfigure our bodies and our senses by using tools and material culture, Malafouris adds a fresh perspective on a foundational issue in the study of human cognition.

**Lambros Malafouris** is Creativity Research Fellow and Research Fellow and Tutor in Archaeology, Anthropology, and Human Evolution at Keble College, University of Oxford.

August — 6 x 9, 336 pp. — 31 illus.

**\$40.00S/£27.95 cloth**  
978-0-262-01919-4

cognitive science/literary theory

## Storytelling and the Sciences of Mind

David Herman

With *Storytelling and the Sciences of Mind*, David Herman proposes a cross-fertilization between the study of narrative and research on intelligent behavior. This cross-fertilization goes beyond the simple importing of ideas from the sciences of mind into scholarship on narrative and instead aims for convergence between work in narrative studies and research in the cognitive sciences. The book as a whole centers on two questions: How do people make sense of stories? And: How do people use stories to make sense of the world? Examining narratives from different periods and across multiple media and genres, Herman shows how traditions of narrative research can help shape ways of formulating and addressing questions about intelligent activity, and vice versa.

Using case studies that range from Robert Louis Stevenson's *Dr Jekyll and Mr Hyde* to sequences from *The Incredible Hulk* comics to narratives told in everyday interaction, Herman considers storytelling both as a target for interpretation and as a resource for making sense of experience itself. In doing so, he puts ideas from narrative scholarship into dialogue with such fields as psycholinguistics, philosophy of mind, and cognitive, social, and ecological psychology. After exploring ways in which interpreters of stories can use textual cues to build narrative worlds, or storyworlds, Herman investigates how this process of narrative worldmaking in turn supports efforts to understand—and engage with—the conduct of persons, among other aspects of lived experience.

**David Herman** is Arts and Humanities Distinguished Professor in the Department of English at The Ohio State University. He is the author of *Basic Elements of Narrative* and other books.

"In *Storytelling and the Sciences of Mind*, David Herman pioneers a transdisciplinary approach in which, rather than simply importing concepts from cognitive science and neuroscience, he brings research from narrative and science together to illuminate a common problem. A must-read not only for specialists in narrative but for anyone interested in the mutual actions of 'worlding a story' and 'storying a world!'"

—**N. Katherine Hayles, Professor of Literature, Duke University; author of *How We Think: Digital Media and Contemporary Technogenesis***

**A transdisciplinary exploration of narrative not just as a target for interpretation but also as a means for making sense of experience itself.**

September  
6 x 9, 440 pp.  
34 illus.

**\$45.00S/£31.95 cloth**  
978-0-262-01918-7

## STORYTELLING AND THE SCIENCES OF MIND

DAVID HERMAN



cognitive science/evolution

neuroscience/psychology

## Cultural Evolution

Society, Technology, Language, and Religion

edited by Peter J. Richerson  
and Morten H. Christiansen

Over the past few decades, a growing body of research has emerged from a variety of disciplines to highlight

**Leading scholars report on current research that demonstrates the central role of cultural evolution in explaining human behavior.**

the importance of cultural evolution in understanding human behavior. Wider application of these insights, however, has been hampered by traditional disciplinary boundaries.

To remedy this, in this volume leading researchers from theoretical biology, developmental and cognitive psychology, linguistics, anthropology, sociology, religious studies, history, and economics come together to explore the central role of cultural evolution in different aspects of human endeavor.

The contributors take as their guiding principle the idea that cultural evolution can provide an important integrating function across the various disciplines of the human sciences, as organic evolution does for biology. The benefits of adopting a cultural evolutionary perspective are demonstrated by contributions on social systems, technology, language, and religion. Topics covered include enforcement of norms in human groups, the neuroscience of technology, language diversity, and prosociality and religion. The contributors evaluate current research on cultural evolution and consider its broader theoretical and practical implications, synthesizing past and ongoing work and sketching a roadmap for future cross-disciplinary efforts.

**Peter J. Richerson** is Distinguished Professor Emeritus at the University of California, Davis, and Visiting Professor at the Institute of Archaeology at University College London. He is the author of *Not By Genes Alone: How Culture Transformed Human Evolution*. **Morton H. Christiansen** is Professor of Psychology and Codirector of the Cognitive Science Lab at Cornell University and External Professor at the Santa Fe Institute. He has coedited *Language Universals* and other books.

August — 6 x 9, 456 pp. — 25 illus.

**\$45.00S/£31.95 cloth**  
978-0-262-01975-0

Strüngmann Forum Reports

## Schizophrenia

Evolution and Synthesis

edited by Steven M. Silverstein,  
Bita Moghaddam, and Til Wykes

Despite major advances in methodology and thousands of published studies every year, treatment outcomes in

**Leading researchers address conceptual and technical issues in schizophrenia and suggest novel strategies for advancing research and treatment.**

schizophrenia have not improved over the last fifty years. Moreover, we still lack strategies for prevention and we do not yet understand how the interaction of genetic, developmental, and environmental

factors contribute to the disorder. In this book, leading researchers consider conceptual and technical obstacles to progress in understanding schizophrenia and suggest novel strategies for advancing research and treatment.

The contributors address a wide range of critical issues: the construct of schizophrenia itself; etiology, risk, prediction, and prevention; different methods of modeling the disorder; and treatment development and delivery. They identify crucial gaps in our knowledge and offer creative but feasible suggestions. These strategies include viewing schizophrenia as a heterogeneous group of conditions; adopting specific new approaches to prediction and early intervention; developing better integration of data across genetics, imaging, perception, cognition, phenomenology, and other fields; and moving toward an evidence-based, personalized approach to treatment requiring rational clinical decision-making to reduce functional disability.

**Steven M. Silverstein** is Director of the Division of Schizophrenia Research at University Behavioral Health-Care, Rutgers Biomedical and Health Services, Rutgers University. **Bita Moghaddam** is Professor of Neuroscience, Psychiatry, and Pharmaceutical Science at the University of Pittsburgh. **Til Wykes** is Professor of Clinical Psychology and Rehabilitation at Kings College London, Director of the National Institute for Health Research Mental Health Research Network, Codirector of the Service User Research Enterprise, and editor of the journal *Mental Health*.

October — 6 x 9, 400 pp.

**\$50.00S/£34.95 cloth**  
978-0-262-01962-0

Strüngmann Forum Reports

neuroscience/robotics

## Human Robotics

Neuromechanics and Motor Control

**Etienne Burdet, David W. Franklin,  
and Theodore E. Milner**

This book proposes a transdisciplinary approach to investigating human motor control that synthesizes musculoskeletal biomechanics and neural control. The authors argue that this integrated approach—which uses the framework of robotics to understand sensorimotor control problems—offers a more complete and accurate description than either a purely neural computational approach or a purely biomechanical one.

The authors offer an account of motor control in which explanatory models are based on experimental evidence using mathematical approaches reminiscent of physics. These computational models yield algorithms for motor control that may be used as tools to investigate or treat diseases of the sensorimotor systems and to guide the development of algorithms and hardware that can be incorporated into products designed to assist with the tasks of daily living.

The authors focus on the insights their approach offers in understanding how movement of the arm is controlled and how the control adapts to changing environments. The book begins with muscle mechanics and control, progresses in a logical manner to planning and behavior, and describes applications in neurorehabilitation and robotics. The material is self-contained, and accessible to researchers and professionals in a range of fields, including psychology, kinesiology, neurology, computer science, and robotics.

**Etienne Burdet** is Reader in Human Robotics in the Department of Bioengineering at the Imperial College of Science, Technology, and Medicine, London.

**David W. Franklin** is Wellcome Trust Career Development Fellow in the Department of Engineering at the University of Cambridge. **Theodore E. Milner** is Professor in the Department of Kinesiology and Physical Education at McGill University.

September — 7 x 9, 288 pp. — 104 illus.

**\$45.00S/£31.95 cloth**  
978-0-262-01953-8

psychology/neuroscience

## Social Perception

Detection and Interpretation of Animacy,  
Agency, and Intention

**edited by M. D. Rutherford  
and Valerie A. Kuhlmeier**

As we enter a room full of people, we instantly have a number of social perceptions. We have an automatic perception of others as subjective agents with their own points of view, thoughts, and goals, and we can quickly interpret minimal visual information to infer that something is animate. This book explores the perceptual and cognitive processes that allow humans to perceive and understand this social information quickly and apparently effortlessly. Top researchers in fields ranging from developmental psychology to vision science consider the perception of biological and animate motion, inferences based on this motion, and the early development of these abilities.

These innovative contributions reflect a recent renewal of interest in the attribution of agency and the understanding of goal-directed behavior, which has been accompanied by a rapid increase in empirical discoveries enabled by such new experimental techniques as brain imaging. The research presented in *Social Perception* suggests that an intuitive understanding of others is an integral part of human psychology, develops early, relies on a network of brain regions, and may be compromised in autism.

**M. D. Rutherford** is Professor of Psychology, Neuroscience, and Behavior at McMaster University, Ontario, and the author of *Child Development: Perspectives in Developmental Psychology*. **Valerie A. Kuhlmeier** is Professor of Psychology at Queens University, Ontario.

### Contributors

Dare Baldwin, Lara Bardi, H. Clark Barrett, Erin Cannon, You-jung Choi, Willem E. Frankenhuis, Tao Gao, Emily D. Grossman, Antonia Hamilton, Petra Hauf, Valerie A. Kuhlmeier, Jeff Loucks, Scott A. Love, Yuyan Luo, Elena Mascalzoni, Phil McAleer, Richard Ramsey, Lucia Regolin, M. D. Rutherford, Kara Sage, Brian J. Scholl, Maggie Shiffrar, Francesca Simion, Jessica Sommerville, James P. Thomas, Nikolaus Troje, Amanda Woodward

September — 6 x 9, 424 pp.  
4 color illus., 33 black & white illus.

**\$55.00S/£37.95 cloth**  
978-0-262-01927-9

neuroscience

## Functional Connections of Cortical Areas

A New View from the Thalamus

S. Murray Sherman and R. W. Guillery

In this book, two leading authorities on the thalamus and its relationship to cortex build on their earlier findings to arrive at new ways of thinking about how the brain relates to the world, to cognition, and behavior. Based on foundations established earlier in their book

**Two leading authorities on thalamocortical connections consider how the neural circuits of the brain relate to our actions and perceptions.**

*Exploring the Thalamus and Its Role in Cortical Function*, the authors consider the implications of these ground rules for thalamic inputs, thalamocortical connections, and cortical outputs.

The authors argue that functional and structural analyses of pathways connecting thalamus and cortex point beyond these to lower centers and through them to the body and the world. Each cortical area depends on the messages linking it to body and world. These messages relate to the way we act and think; each cortical area receives thalamic inputs and has outputs to motor centers. Sherman and Guillery go on to discuss such topics as the role of branching axons that carry motor instructions as well as copies of these motor instructions for relay to cortex under the control of the thalamic gate. This gate allows the thalamus to control the passage of information on the basis of which cortex relates to the rest of the nervous system.

**S. Murray Sherman** is Maurice Goldblatt Professor and Chairman of the Department of Neurobiology at the University of Chicago. **R. W. Guillery** is affiliated with the MRC Anatomical Neuropharmacology Unit in Oxford, previously taught in the United States, the United Kingdom, and Turkey, and is a Fellow of the Royal Society.

September — 7 x 9, 304 pp. — 52 illus.

**\$40.00S/£27.95 cloth**  
978-0-262-01930-9

Also available

**Exploring the Thalamus and Its Role in Cortical Function**

Second Edition

S. Murray Sherman and R. W. Guillery

2009, 978-0-262-51344-9  
\$36.00S/£24.95 paper

neuroscience/cognitive science

## The Cognitive–Emotional Brain

From Interactions to Integration

Luiz Pessoa

The idea that a specific brain circuit constitutes the emotional brain (and its corollary, that cognition resides elsewhere) shaped thinking about emotion and the brain for many years. Recent behavioral, neuropsychological, neuroanatomy, and neuroimaging research, however, suggests that

**A study that goes beyond the debate over functional specialization to describe the ways that emotion and cognition interact and are integrated in the brain.**

emotion interacts with cognition in the brain. In this book, Luiz Pessoa moves beyond the debate over functional specialization, describing the many ways that emotion and cognition interact and are integrated in the brain.

The amygdala is often viewed as the quintessential emotional region of the brain, but Pessoa reviews findings revealing that many of its functions contribute to attention and decision making, critical components of cognitive functions. He counters the idea of a subcortical pathway to the amygdala for affective visual stimuli with an alternate framework, the *multiple waves model*. Citing research on reward and motivation, Pessoa also proposes the *dual competition model*, which explains emotional and motivational processing in terms of their influence on competition processes at both perceptual and executive function levels. He considers the broader issue of structure-function mappings, and examines anatomical features of several regions often associated with emotional processing, highlighting their connectivity properties. As new theoretical frameworks of distributed processing evolve, Pessoa concludes, a truly dynamic network view of the brain will emerge, in which “emotion” and “cognition” may be used as labels in the context of certain behaviors, but will not map cleanly into compartmentalized pieces of the brain.

**Luiz Pessoa** is Professor of Psychology, member of the Program in Neuroscience and Cognitive Science, Principal Investigator of the Laboratory of Cognition and Emotion, and Director of the Maryland Neuroimaging Center at the University of Maryland, College Park.

September — 7 x 9, 336 pp.  
70 black & white illus., 14 color plates

**\$40.00S/£27.95 cloth**  
978-0-262-01956-9



cognitive neuroscience

## Neuroscience of Creativity

edited by **Oshin Vartanian, Adam S. Bristol,**  
and **James C. Kaufman**

This volume offers a comprehensive overview of the latest neuroscientific approaches to the scientific study of creativity. In chapters of creativity. In chapters that progress logically from neurobiological fundamentals to systems neuroscience and neuroimaging, leading scholars describe the latest theoretical, genetic, structural, clinical, functional, and applied research on the neural bases of creativity. The treatment is both broad and in depth, offering a range of neuroscientific perspectives with detailed coverage by experts in each area.

Following opening chapters that offer theoretical context, the contributors discuss such issues as the heritability of creativity; creativity in patients with brain damage, neurodegenerative conditions, and mental illness; clinical interventions and the relationship between psychopathology and creativity; neuroimaging studies of intelligence and creativity; neuroscientific basis of creativity-enhancing methodologies; and the information-processing challenges of viewing visual art.

**Oshin Vartanian** is Adjunct Professor of Psychology at the University of Toronto Scarborough. **Adam S. Bristol** is Portfolio Manager at Aquilo Capital Management, a life sciences investment fund based in San Francisco. **James C. Kaufman** is Professor of Psychology and Director of the Learning Research Institute at California State University, San Bernardino.

### Contributors

Baptiste Barbot, Mathias Benedek, David Q. Beversdorf, Aaron P. Blaisdell, Margaret A. Boden, Dorret I. Boomsma, Adam S. Bristol, Shelley Carson, M. H. M. de Moor, Andreas Fink, Liane Gabora, Dennis Garlick, Elena L. Grigorenko, Richard J. Haier, Rex E. Jung, James C. Kaufman, Helmut Leder, Kenneth J. Leising, Bruce L. Miller, Aparajita Ranjan, M. P. Roeling, W. David Stahlman, Mei Tan, Pablo P. L. Tinio, Oshin Vartanian, Indre V. Viskontas, Dahlia W. Zaidel

October — 6 x 9, 320 pp.  
9 color illus., 20 black & white illus.

**\$45.00S/£31.95 cloth**  
978-0-262-01958-3

vision/neuroscience

## Visual Psychophysics

From Laboratory to Theory  
**Zhong-Lin Lu and Barbara Doshier**

Vision is one of the most active areas in biomedical research, and visual psychophysical techniques are a foundational methodology for this research enterprise. Visual psychophysics, which studies the relationship between the physical world and human behavior, is a classical field

of study that has widespread applications in modern vision science. Bridging the gap between theory and practice, this textbook provides a comprehensive treatment of visual psychophysics, teaching not only basic techniques but also sophisticated data analysis methodologies and theoretical approaches. It begins with practical information about setting up a vision lab and goes on to discuss the creation, manipulation, and display of visual images; timing and integration of displays with measurements of brain activities and other relevant techniques; experimental designs; estimation of behavioral functions; and examples of psychophysics in applied and clinical settings.

The book's treatment of experimental designs presents the most commonly used psychophysical paradigms, theory-driven psychophysical experiments, and the analysis of these procedures in a signal-detection theory framework. The book discusses the theoretical underpinnings of data analysis and scientific interpretation, presenting data analysis techniques that include model fitting, model comparison, and a general framework for optimized adaptive testing methods. It includes many sample programs in Matlab with functions from Psychtoolbox, a free toolbox for real-time experimental control. Once students and researchers have mastered the material in this book, they will have the skills to apply visual psychophysics to cutting-edge vision science.

**Zhong-Lin Lu** is Distinguished Professor of Social and Behavioral Sciences, Professor of Psychology, and Director of the Center for Brain and Cognitive Sciences at The Ohio State University. **Barbara Doshier** is Distinguished Professor of Cognitive Sciences and Dean of the School of Social Sciences at the University of California, Irvine.

October — 7 x 9, 528 pp.  
10 color plates, 126 black & white illus.

**\$60.00X/£41.95 cloth**  
978-0-262-01945-3

## The New Visual Neurosciences

edited by John S. Werner and Leo M. Chalupa

**A comprehensive review  
of contemporary research  
in the vision sciences,  
reflecting the rapid  
advances of recent years.**

November  
8 1/2 x 10 3/4, 1,792 pp.  
575 black & white illus.,  
281 color illus.

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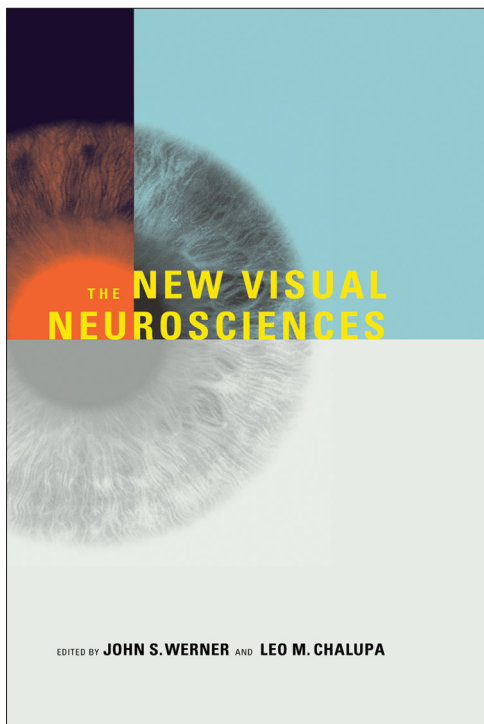
**The Visual Neurosciences**  
Leo M. Chalupa  
and John S. Werner

2003, 978-0-262-03308-4  
\$250S/£172.95 cloth

Visual science is the model system for neuroscience, its findings relevant to all other areas. This essential reference to contemporary visual neuroscience covers the extraordinary range of the field today, from molecules and cell assemblies to systems and therapies. It provides a state-of-the-art companion to the earlier book *The Visual Neurosciences* (MIT Press, 2003). This volume covers the dramatic advances made in the last decade, offering new topics, new authors, and new chapters.

*The New Visual Neurosciences* assembles groundbreaking research, written by international authorities. Many of the 112 chapters treat seminal topics not included in the earlier book. These new topics include retinal feature detection; cortical connectomics; new approaches to mid-level vision and spatiotemporal perception; the latest understanding of how multimodal integration contributes to visual perception; new theoretical work on the role of neural oscillations in information processing; and new molecular and genetic techniques for understanding visual system development. An entirely new section covers invertebrate vision, reflecting the importance of this research in understanding fundamental principles of visual processing. Another new section treats translational visual neuroscience, covering recent progress in novel treatment modalities for optic nerve disorders, macular degeneration, and retinal cell replacement. *The New Visual Neurosciences* is an indispensable reference for students, teachers, researchers, clinicians, and anyone interested in contemporary neuroscience.

**John S. Werner** is Distinguished Professor in the Departments of Ophthalmology and Vision Science and Neurobiology, Physiology, and Behavior at the University of California, Davis. **Leo M. Chalupa** is Vice President for Research and Professor of Pharmacology and Physiology at George Washington University.



### Associate Editors

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Gregg Recanzone, Mandyam Srinivasan,  
W. Martin Usrey, Michael Webster, David Whitney

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Retinal Mechanisms and Processes • Organization  
of Visual Pathways • Subcortical Processing •  
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Attention, Cognition, and Multimodal Integration •  
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Molecular and Developmental Processes •  
Translational Visual Neuroscience

humanities/neuroscience

## Feeling Beauty

The Neuroscience of Aesthetic Experience

G. Gabrielle Starr

In *Feeling Beauty*, G. Gabrielle Starr argues that understanding the neural underpinnings of aesthetic experience can reshape our conceptions of aesthetics and the arts. Drawing on the tools of both cognitive neuroscience and traditional humanist inquiry, Starr shows that neuroaesthetics offers a

**A theory of the neural bases of aesthetic experience across the arts, which draws on the tools of both cognitive neuroscience and traditional humanist inquiry.**

new model for understanding the dynamic and changing features of aesthetic life, the relationships among the arts, and how individual differences in aesthetic judgment shape the varieties of aesthetic experience.

Starr, a scholar of the humanities and a researcher in the neuroscience of aesthetics, proposes that aesthetic experience relies on a distributed neural architecture—a set of brain areas involved in emotion, perception, imagery, memory, and language. More important, it emerges from networked interactions, intricately connected and coordinated brain systems that together form a flexible architecture enabling us to develop new arts and to see the world around us differently. Focusing on the “sister arts” of poetry, painting, and music, Starr builds and tests a neural model of aesthetic experience valid across all the arts. Asking why works that address different senses using different means seem to produce the same set of feelings, she examines particular works of art in a range of media, including a poem by Keats, a painting by van Gogh, a sculpture by Bernini, and Beethoven’s *Diabelli Variations*. Starr’s innovative, interdisciplinary analysis is true to the complexities of both the physical instantiation of aesthetics and the realities of artistic representation.

**G. Gabrielle Starr** is Seryl Kushner Dean of the College of Arts and Science and Professor of English at New York University.

August — 5 3/8 x 8, 280 pp. — 19 color illus.

**\$25.00S/£17.95 cloth**  
978-0-262-01931-6

psychology/biology/neuroscience

## Genetic Influences on Addiction

An Intermediate Phenotype Approach

edited by James MacKillop  
and Marcus R. Munafò

Although there is scientific consensus that genetic factors play a substantial role in an individual’s vulnerability to drug or alcohol addiction, specific genetic variables linked to risk or resilience remain elusive. Understanding how genetic factors contribute to addiction may require

**A comprehensive review of research examining intermediary mechanisms to understand the link between genetic variation and addiction liability.**

focusing on intermediary mechanisms, or intermediate phenotypes, that connect genetic variation and risk for addiction. This book offers a comprehensive review of this mechanistic-centered approach and the most promising intermediate phenotypes identified in empirical research.

The contributors first consider the most established findings in the field, including variability in drug metabolism, brain electrophysiological profiles, and subjective reactions to direct drug effects; they go on to review highly promising areas such as expectancies, attentional processing, and behavioral economic variables; and finally, they investigate more exploratory approaches, including the differential susceptibility hypothesis and epigenetic modifications. Taken together, the chapters offer a macro-level testing of the hypothesis that these alternative, mechanistic phenotypes can advance the understanding of genetic influences on addiction. The book will be of interest to researchers and practitioners in a range of disciplines, including behavioral genetics, psychology, pharmacology, neuroscience, and sociology.

**James MacKillop** is Associate Professor in the Department of Psychology at the University of Georgia, where he is also Associate Director of the William and Barbara Owens Institute for Behavioral Research, and Adjunct Associate Professor in the Department of Behavioral and Social Sciences at Brown University. **Marcus R. Munafò** is Professor of Biological Psychology at the University of Bristol, UK.

January — 7 x 9, 344 pp. — 32 illus.

**\$45.00S/£31.95 cloth**  
978-0-262-01969-9

evolution/biology

## Developing Scaffolds in Evolution, Culture, and Cognition

edited by Linnda R. Caporael,  
James R. Griesemer, and William C. Wimsatt

“Scaffolding” is a concept that is becoming widely used across disciplines. This book investigates common

**Empirical and philosophical perspectives on scaffolding that highlight the role of temporal and temporary resources in development across concepts of culture, cognition, and evolution.**

threads in diverse applications of scaffolding, including theoretical biology, cognitive science, social theory, science and technology studies, and human development. The contributors,

from a range of disciplines, offer a fully developed analysis of scaffolding that highlights the role of temporal and temporary resources in development, broadly conceived, across concepts of culture, cognition, and evolution.

The book emphasizes reproduction, repeated assembly, and entrenchment of heterogeneous relations, parts, and processes as a complement to neo-Darwinism in the developmentalist tradition of conceptualizing evolutionary change. After describing an integration of theoretical perspectives that can accommodate different levels of analysis and connect various methodologies, the book discusses multilevel organization; differences (and reciprocity) between individuals and institutions as units of analysis; and perspectives on development that span brains, careers, corporations, and cultural cycles.

**Linnda R. Caporael** is Professor in the Department of Science and Technology Studies at Rensselaer Polytechnic Institute. **James R. Griesemer** is Professor in the Department of Philosophy at the University of California, Davis. **William C. Wimsatt** is Professor Emeritus in the Department of Philosophy at the University of Chicago.

### Contributors

Colin Allen, Linnda R. Caporael, James Evans, Elihu M. Gerson, Simona Ginsburg, James R. Griesemer, Christophe Heintz, Eva Jablonka, Sanjay Joshi, Shu-Chen Li, Pamela Lyon, Sergio F. Martinez, Christopher J. May, Johann Peter Murmann, Stuart A. Newman, Jeffrey C. Schank, Iddo Tavory, Georg Theiner, Barbara Hoeberg Wimsatt, William C. Wimsatt

November — 7 x 9, 448 pp. — 24 illus.

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Vienna Series in Theoretical Biology

biology/mathematics

## Mathematical Modeling in Systems Biology

An Introduction

Brian P. Ingalls

Systems techniques are integral to current research in molecular cell biology, and system-level investigations are often accompanied by mathematical models.

**An introduction to the mathematical concepts and techniques needed for the construction and analysis of models in molecular systems biology.**

These models serve as working hypotheses: they help us to understand and predict the behavior of complex systems. This book offers an introduction

to mathematical concepts and techniques needed for the construction and interpretation of models in molecular systems biology. It is accessible to upper-level undergraduate or graduate students in life science or engineering who have some familiarity with calculus, and will be a useful reference for researchers at all levels.

The first four chapters cover the basics of mathematical modeling in molecular systems biology. The last four chapters address specific biological domains, treating modeling of metabolic networks, of signal transduction pathways, of gene regulatory networks, and of electrophysiology and neuronal action potentials. Chapters 3–8 end with optional sections that address more specialized modeling topics. Exercises, solvable with pen-and-paper calculations, appear throughout the text to encourage interaction with the mathematical techniques. More involved end-of-chapter problem sets require computational software. Appendixes provide a review of basic concepts of molecular biology, additional mathematical background material, and tutorials for two computational software packages (XPPAUT and MATLAB) that can be used for model simulation and analysis.

**Brian P. Ingalls** is Associate Professor in the Departments of Applied Mathematics, Biology, and Chemical Engineering at the University of Waterloo, Canada. He is the coeditor of *Control Theory and Systems Biology* (MIT Press, 2010).

August — 7 x 9, 424 pp. — 195 illus.

**\$50.00X/£34.95 cloth**  
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biology/medicine/engineering

## From X-rays to DNA

How Engineering Drives Biology

David W. Lee

with Jeffrey Drazen, Phillip A. Sharp, and Robert S. Langer

Biology and engineering are fundamentally different cultures. As interviews later in the book tell us, they are funded differently, they approach the exploration of basic science and the formulation of problem solving differently, and, most importantly, engineers and biologists think differently. Most biological researchers—and those that fund them—do not encompass the development of new enabling technologies in their work. Most limit their research to technologies that are already commercially available, which acts to constrain their field of inquiry.

One has to wonder how many times a scientist with a compelling hypothesis has the nagging thought, “If only I had the right technology.”

—from *From X-rays to DNA*

Engineering has been an essential collaborator in biological research and breakthroughs in biology are often enabled by technological advances. Decoding the double helix structure of DNA, for example, only became possible after significant advances in such technologies as X-ray diffraction and gel electrophoresis. Diagnosis and treatment of tuberculosis improved as new technologies—including the stethoscope, the microscope, and the X-ray—developed. These engineering breakthroughs take place away from the biology lab, and many years may elapse before the technology becomes available to biologists. In this book, David Lee argues for concurrent engineering—the convergence of engineering and biological research—as a means to accelerate the pace of biological discovery and its application to diagnosis and treatment. He presents extensive case studies and introduces a metric to measure the time between technological development and biological discovery.

Investigating a series of major biological discoveries that range from pasteurization to electron microscopy, Lee finds that it took an average of forty years for the necessary technology to become available for laboratory use. Lee calls for new approaches to research and funding to encourage a tighter, more collaborative coupling of engineering and biology. Only then, he argues, will we see the rapid advances in the life sciences that are critically needed for life-saving diagnosis and treatment.

**David W. Lee** is CEO of Lumicell Diagnostics, Inc., and has a research appointment at MIT’s Koch Center for Integrative Cancer Research. **Jeffrey Drazen** is Editor-in-Chief of the *New England Journal of Medicine* and Distinguished Professor of Medicine at Harvard Medical School. **Phillip A. Sharp**, awarded the Nobel Prize for Medicine and Physiology in 1993, is Institute Professor at the Koch Center. **Robert S. Langer**, awarded the 2002 Charles Stark Draper Prize, is an Institute Professor and a member of the Department of Chemical Engineering at the MIT Koch Institute for Integrative Cancer Research.

An argument that technology accelerates biological discovery, with case studies ranging from chromosome discovery with early microscopes to how DNA replicates using radioisotope labels.

November  
6 x 9, 232 pp.  
29 illus.

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business/management

## Operations Rules

Delivering Customer Value through Flexible Operations

David Simchi-Levi

An expert offers a set of rules that will help managers achieve dramatic improvements in operations performance.

October  
6 x 9, 256 pp.  
50 illus.

**\$15.95T/£10.95 paper**  
978-0-262-52515-2

cloth 2010  
978-0-262-01474-8

In recent years, management gurus have urged businesses to adopt such strategies as just-in-time, lean manufacturing, offshoring, and frequent deliveries to retail outlets. Today, however, these much-touted strategies may be risky. Global financial turmoil, rising labor costs in developing countries, and huge volatility in the price of oil and other commodities can disrupt a company's entire supply chain and threaten its ability to compete. In *Operations Rules*, David Simchi-Levi identifies the crucial element in a company's success: the link between the value it provides its customers and its operations strategies. He offers a set of scientifically and empirically based rules that management can follow to achieve a quantum leap in operations performance as well as real-world examples from such successful companies as Amazon and Walmart.

Flexibility, says Simchi-Levi, is the single most important capability that allows firms to innovate in their operations and supply chain strategies. Simchi-Levi's rules—regarding such issues as channels, price, product characteristics, value-added service, procurement strategy, and information technology—transform operations and supply chain management from an undertaking based on gut feeling and anecdotes to a science.

**David Simchi-Levi** is Professor of Engineering Systems at MIT and is considered one of the premier thought leaders in supply chain management. He coauthored the award-winning *Designing and Managing the Supply Chain*. He is the founder of LogicTools (now part of IBM), which provides software solutions and professional services for supply chain planning.

"This is an excellent book! . . . It is insightful, deep but not technical, to the point, and illustrated with many interesting examples."

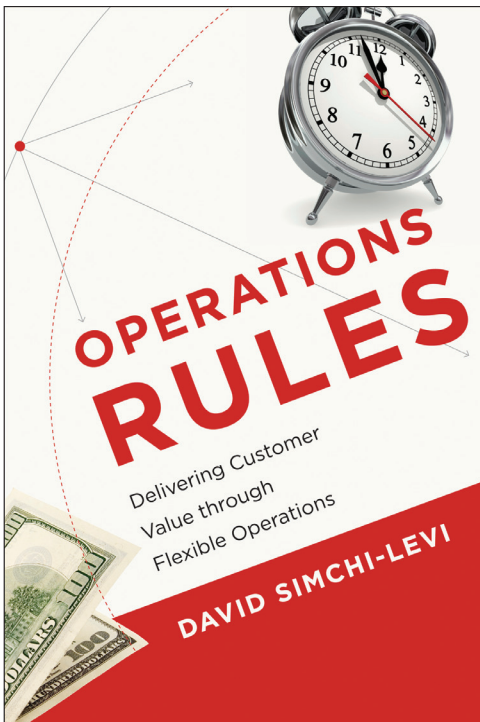
—**Luk Van Wassenhove, *Interfaces***

"Companies today are faced with an increasing number of choices in operational and supply chain strategies. This book goes beyond just showing how to make the right operational decisions. It makes the critical link between operations and providing more value to customers. It's a must read for anyone involved in operations and strategy."

—**Jim Champy, coauthor of *Reengineering the Corporation***

"This well-written book provides guidelines that can help managers address today's business challenges such as risk and market volatility. We have already implemented many of the ideas and concepts in our operations and supply chain practice, and the payoffs have been significant."

—**Narendra Mulani, Managing Director, Accenture LLP**



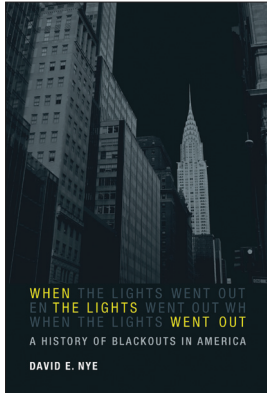
U.S. history/technology

## When the Lights Went Out

A History of Blackouts in America

David E. Nye

Where were you when the lights went out? At home during a thunderstorm? During the Great Northeastern



Blackout of 1965? In California when rolling blackouts hit in 2000? In 2003, when a cascading power failure left fifty million people without electricity? We often remember vividly our time in the dark. In *When the Lights Went Out*, David Nye views power outages in America from 1935 to the present not simply as technical failures but variously as military

tactic, social disruption, crisis in the networked city, outcome of political and economic decisions, sudden encounter with sublimity, and memories enshrined in photographs. Our electrically lit-up life is so natural to us that when the lights go off, the darkness seems abnormal.

Nye looks at America's development of its electrical grid, which made large-scale power failures possible and a series of blackouts from military blackouts to the "greenout" (exemplified by the new tradition of "Earth Hour"), a voluntary reduction organized by environmental organizations.

Blackouts, writes Nye, are breaks in the flow of social time that reveal much about the trajectory of American history. Each time one occurs, Americans confront their essential condition—not as isolated individuals, but as a community that increasingly binds itself together with electrical wires and signals.

**David E. Nye** is Professor of American History at the University of Southern Denmark. The winner of the 2005 Leonardo da Vinci Medal of the Society for the History of Technology, he is the author of *America's Assembly Line* (MIT Press) and other books.

"This captivating book zooms in with a telescopic intensity on America's blackouts, from the 1930s to the massive 2003 Northeast power failure. . . . Rich with insight and information."  
—*Publishers Weekly*

October — 5 3/8 x 8, 304 pp. — 26 illus.

**\$15.95T/£10.95 paper**  
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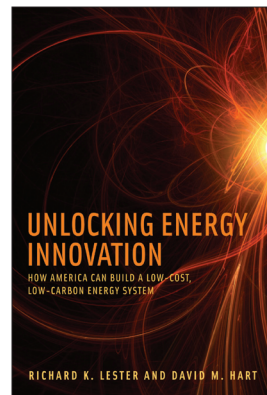
energy/business

## Unlocking Energy Innovation

How America Can Build a Low-Cost, Low-Carbon Energy System

Richard K. Lester and David M. Hart

Energy innovation offers us our best chance to solve the three urgent and interrelated problems of climate



change, worldwide insecurity over energy supplies, and rapidly growing energy demand. But if we are to achieve a timely transition to reliable, low-cost, low-carbon energy, the U.S. energy innovation system must be radically overhauled.

*Unlocking Energy Innovation* outlines an up-to-the-minute plan for remaking America's energy innovation system

by tapping the country's entrepreneurial strengths and regional diversity in both the public and private spheres. "Business as usual" will not fill the energy innovation gap. Only the kind of systemic, transformative changes to our energy innovation system described in this provocative book will help us avert the most dire scenarios and achieve a sustainable and secure energy future.

**Richard K. Lester** is Japan Steel Industry Professor and Head of the Department of Nuclear Science and Engineering at MIT and Founding Director of MIT's Industrial Performance Center. He is the author or coauthor of *The Productive Edge* and other books. **David M. Hart** is Professor in the School of Public Policy and Director of the Center for Science and Technology Policy at George Mason University. He is the author of *Forged Consensus: Science, Technology, and Economic Policy in the United States, 1921–1953*. He served as Assistant Director for Innovation Policy in the White House Office of Science and Technology Policy from 2011 to 2012.

"Richard Lester and David Hart offer a thoughtful analysis about the special challenges of innovation in energy. Their book will generate discussion and indeed debate about the relative roles of government and markets in bringing innovation about."

—**Daniel Yergin**, author of *The Quest: Energy, Security, and the Remaking of the Modern World*

October — 6 x 9, 232 pp.

**\$14.95T/£10.95 paper**  
978-0-262-52514-5

cloth 2011  
978-0-262-01677-3

economics/finance

## Inside the Fed

Monetary Policy and Its Management,  
Martin through Greenspan to Bernanke

Revised Edition

**Stephen H. Axilrod**

Stephen Axilrod is the ultimate Federal Reserve insider. He worked at the Fed's Board of Governors for more than thirty years and after that in private markets and as a consultant on monetary policy. With *Inside the Fed*, he offers his unique perspective on the inner workings of the Federal Reserve System during the last fifty years. This new, post-financial meltdown edition offers his assessment of the Fed's action (and inaction) during the crisis and expanded coverage of the Fed in the Bernanke era.

Great leadership in monetary policy, Axilrod says, is determined not by pure economic sophistication but by the ability to push through political and social barriers to achieve a paradigm shift in policy—and by the courage and bureaucratic moxie to pull it off.

**Stephen H. Axilrod** worked from 1952 to 1986 at the Board of Governors of the Federal Reserve System in Washington, D.C., rising to Staff Director for Monetary and Financial Policy and Staff Director and Secretary of the Federal Open Market Committee, the Fed's main monetary policy arm. Since 1986 he has worked in private markets and as a consultant on monetary policy with foreign monetary authorities. He is the author of *The Federal Reserve: What Everyone Needs to Know*.

### Praise for the first edition

"Informative and insightful."

—**Publishers Weekly**

"The lessons Stephen Axilrod draws from past battles couldn't be timelier."

—**Sylvia Nasar, author of *A Beautiful Mind***

October — 6 x 9, 240 pp. — 2 illus.

**\$16.95T/£11.95 paper**

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978-0-262-01562-2

economics/finance

## Economics After the Crisis

Objectives and Means

**Adair Turner**

The global economic crisis of 2008–2009 seemed a crisis not just of economic performance but also of the system's underlying political ideology and economic theory. But a second Great Depression was averted, and the radical shift to New Deal-like economic policies predicted by some never took place. Perhaps the correct response to the crisis is simply careful management of the macroeconomic challenges as we recover, combined with reform of financial

regulation to prevent a recurrence. In *Economics After the Crisis*, Adair Turner offers a strong counterargument to this somewhat complacent view. The crisis of 2008–2009, he writes, should prompt a wide set of challenges to economic and political assumptions and to economic theory.

Turner argues that more rapid growth should not be the overriding objective for rich developed countries, that inequality should concern us, that the pre-crisis confidence in financial markets as the means of pursuing objectives was profoundly misplaced.

**Adair Turner**, Chairman of Britain's Financial Services Authority from September 2008 to March 2013, is a Senior Fellow of the Institute for New Economic Thinking. He is Visiting Professor at the London School of Economics and at Cass Business School, City University London, and the author of *Just Capital: The Liberal Economy*.

"A thinking person's delight, not least for the clear and lucid way in which Turner sets out his arguments."

—**Robert Skidelsky, *TLS***

"A well-researched and profound rethink of macroeconomic and financial policy after the crisis."

—**Kenneth Rogoff, Harvard University**

October — 6 x 9, 128 pp. — 26 illus.

**\$12.95T/£9.95 paper**

978-0-262-52516-9

cloth 2012

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The Lionel Robbins Lectures Series



environment/nature

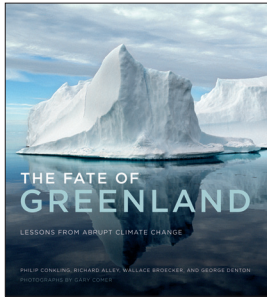
## The Fate of Greenland

Lessons from Abrupt Climate Change

**Philip Conkling, Richard Alley,  
Wallace Broecker, and George Denton**

photographs by Gary Comer

Viewed from above, Greenland offers an endless vista of whiteness interrupted only by scattered ponds of



azure-colored melt water. But this stark view of ice and snow is changing—and changing rapidly. Greenland's ice sheet is melting. *The Fate of Greenland* documents Greenland's warming with dramatic color photographs and investigates episodes in Greenland's climate history for clues about what happens

when climate change is abrupt rather than gradual.

Greenland's climate past and present could presage our climate future. Abrupt climate change would be cataclysmic: the melting of Greenland's ice shelf would cause sea levels to rise twenty-four feet worldwide; lower Manhattan would be underwater and Florida's coastline would recede to Orlando. As this book makes clear, it is in all of our interests to pay attention to Greenland.

**Philip Conkling** is Founder and President of the Island Institute in Maine. **Richard Alley**, a glaciologist, is Evan Pugh Professor of Geosciences and Associate of the Earth and Environmental Systems Institute at Penn State. **Wallace Broecker**, an oceanographer, is Newberry Professor of Geology at Columbia University and a winner of the Crafoord Prize in Geosciences. **George Denton**, a geologist, is Professor of Geological Sciences and Quaternary Studies at the University of Maine.

**2011 American Publishers Award for Professional and Scholarly Excellence (PROSE Award) in Earth Sciences**

**2012 Phi Beta Kappa Science Book Award presented by the Phi Beta Kappa Society**

"The authors make technical science elegantly comprehensible while the evocative photographs convey the stark beauty of Earth's most mutable landscape."

—*The Explorers Journal*

October — 8 x 9, 232 pp.  
77 color photographs, 1 color illus.

**\$16.95T/£11.95 paper**  
978-0-262-52526-8

cloth 2011  
978-0-262-01564-6

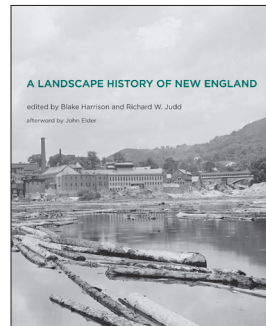
regional/history/geography

## A Landscape History of New England

edited by **Blake Harrison and Richard W. Judd**

afterword by John Elder

*A Landscape History of New England* takes a view of New England's landscapes that goes beyond picture



postcard-ready vistas of white-steepled churches, open pastures, and tree-covered mountains. Its chapters describe the Native American presence in the Maine Woods; offer a history of agriculture told through stone walls, woodlands, and farm buildings; report on the fragile ecology of tourist-friendly Cape Cod

beaches; and reveal the ethnic stereotypes informing Colonial Revivalism. Taken together, they offer a wide-ranging history of New England's diverse landscapes, stretching across two centuries.

The book shows that all New England landscapes are the products of human agency as well as nature. The authors trace the roles that work, recreation, historic preservation, conservation, and environmentalism have played in shaping the region, and provide fresh perspectives on New England's many landscapes: forests, mountains, farms, coasts, industrial areas, villages, towns, and cities. Generously illustrated, with many archival photographs, *A Landscape History of New England* offers readers a solid historical foundation for understanding the great variety of places that make up New England.

**Blake Harrison** holds a doctorate in geography from the University of Wisconsin and is the author of *The View from Vermont: Tourism and the Making of an American Rural Landscape*. **Richard W. Judd** is Professor of History at the University of Maine and the author of *The Untilled Garden: Natural History and the Origins of American Conservation* and other books.

"All who know and love New England will find something new in this fascinating book, whose authors probe beyond the stereotypes to discover its landscape's many stories."

—**Anne Whiston Spirn**, author of *The Language of Landscape*

October — 7 x 9, 432 pp. — 81 illus.

**\$24.95T/£17.95 paper**  
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978-0-262-01640-7

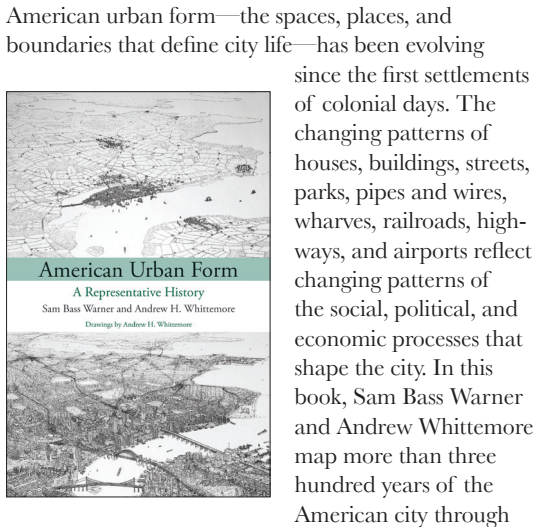
urban studies/planning/history

## American Urban Form

A Representative History

Sam Bass Warner and Andrew H. Whittemore

drawings by Andrew H. Whittemore



American urban form—the spaces, places, and boundaries that define city life—has been evolving since the first settlements of colonial days. The changing patterns of houses, buildings, streets, parks, pipes and wires, wharves, railroads, highways, and airports reflect changing patterns of the social, political, and economic processes that shape the city. In this book, Sam Bass Warner and Andrew Whittemore map more than three hundred years of the American city through

the evolution of urban form. They do this by offering an illustrated history of “the City”—a hypothetical city (constructed from the histories of Boston, Philadelphia, and New York) that exemplifies the American city’s transformation from village to regional metropolis. In an engaging text accompanied by Whittemore’s detailed, meticulous drawings, they chart the City’s changes. Planning for the future of cities, they remind us, requires an understanding of the forces that shaped the city’s past.

**Sam Bass Warner**, noted urban historian and Visiting Professor of Urban History at MIT, is the author of *The Urban Wilderness: A History of the American City* and other books. **Andrew H. Whittemore** is Assistant Professor in the Department of City and Regional Planning at the University of Texas Arlington.

“With its rich narrative and outstanding visual representation of urban form changes, this concise book succeeds in making the reader experience the American city through time and understand the forces behind its evolution.”

—**Anastasia Loukaitou-Sideris, Professor of Urban Planning, UCLA**

October — 6 1/2 x 10, 200 pp. — 45 line drawings

**\$14.95T/£10.95 paper**  
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cloth 2012  
978-0-262-01721-3

Urban and Industrial Environments series

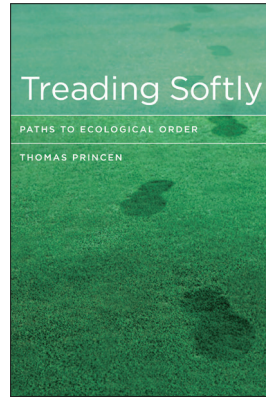
environment

## Treading Softly

Paths to Ecological Order

Thomas Princen

We are living beyond our means, running up debts both economic and ecological, consuming the planet’s



resources at rates not remotely sustainable. But it’s hard to imagine a different way. How can we live without cheap goods and easy credit? How can we consume without consuming the systems that support life? How can we live well and live within our means? In *Treading Softly*, Thomas Princen helps us imagine an alternative. We need, he says, a new normal, an ecological

order that is actually economical with resources, that embraces limits, that sees sustainable living not as a “lifestyle” but as a long-term connection to fresh, free-flowing water, fertile soil, and healthy food.

The goal would be to live well by living well within the capacities of our resources. Princen doesn’t offer a quick fix—there’s no list of easy ways to save the planet to hang on the refrigerator. He gives us instead a positive, realistic sense of the possible, with an abundance of examples, concepts, and tools for imagining, then realizing, how to live within our biophysical means.

**Thomas Princen** is the author of *The Logic of Sufficiency* and lead editor of *Confronting Consumption*, both published by the MIT Press and both winners of the International Studies Association’s Harold and Margaret Sprout Award for best book on international environmental affairs. He teaches social and ecological sustainability at the University of Michigan.

“Succeeds in encouraging readers to imagine a possible new world, and in emboldening us to get to work in creating it.”

—**Anders Hayden, Sustainability: Science, Practice, & Policy**

“Full of hope and vision for how we can, indeed must, do things differently.”

—**Annie Leonard, writer and host of The Story of Stuff**

October — 5 3/8 x 8, 224 pp.

**\$14.95T/£10.95 paper**  
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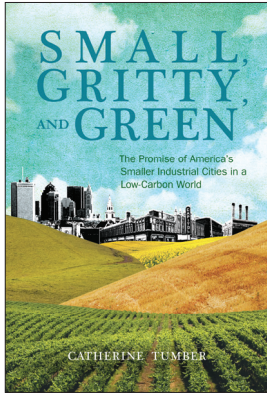
urban studies/environment

## Small, Gritty, and Green

The Promise of America's Smaller Industrial Cities in a Low-Carbon World

Catherine Tumber

America's once-vibrant small-to-midsize cities—Syra-



cuse, Worcester, Akron, Flint, Rockford, and others— increasingly resemble urban wastelands. Gutted by deindustrialization, outsourcing, and middle-class flight, disproportionately devastated by metro freeway systems that laid waste to the urban fabric and displaced the working poor, small industrial cities seem to be part of America's past, not its future. And yet, Catherine Tumber argues in this provoca-

tive book, America's gritty Rust Belt cities could play a central role in a greener, low-carbon, relocated future.

Tumber traveled to twenty-five cities in the Northeast and Midwest—from Buffalo to Peoria to Detroit to Rochester—interviewing planners, city officials, and activists, and weaving their stories into this exploration of small-scale urbanism. Smaller cities can be a critical part of a sustainable future and a productive green economy. *Small, Gritty, and Green* will help us develop the moral and political imagination we need to realize this.

Historian and journalist **Catherine Tumber** is a Visiting Scholar at Northeastern University's School of Public Policy and Urban Affairs and a Fellow of the Massachusetts Institute for a New Commonwealth's Gateway Cities Innovation Institute.

"Her argument is provocative and serious, and everyone searching for a more sustainable urban future should consider it."

—Eric Klinenberg, *Bookforum*

"This is a clear and intelligent call for Americans to find the great value waiting in the many small cities across this land."

—James Howard Kunstler, author of *The Long Emergency* and the *World Made by Hand* novels

October — 6 x 9, 256 pp.

**\$14.95T/£10.95 paper**

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Urban and Industrial Environments series

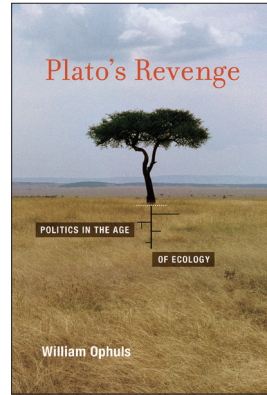
environment/political science/philosophy

## Plato's Revenge

Politics in the Age of Ecology

William Ophuls

In this provocative call for a new ecological politics, William Ophuls starts from a radical premise: "sustainability" is impossible.



We are on an industrial *Titanic*, fueled by rapidly depleting stocks of fossil hydrocarbons. Making the deck chairs from recyclable materials and feeding the boilers with biofuels is futile. In the end, the ship is doomed by the laws of thermodynamics and by the implacable biological and geological limits that are already beginning to pinch. Ophuls warns

us that we are headed for a postindustrial future that, however technologically sophisticated, will resemble the preindustrial past in many important respects. With *Plato's Revenge*, Ophuls, author of *Ecology and the Politics of Scarcity*, envisions political and social transformations that will lead to a new natural-law politics based on the realities of ecology, physics, and psychology.

In a discussion that ranges widely—from ecology to quantum physics to Jungian psychology to Eastern religion to Western political philosophy—Ophuls argues for an essentially Platonic politics of consciousness dedicated to inner cultivation rather than outward expansion and the pursuit of perpetual growth. We would then achieve a way of life that is materially and institutionally simple but culturally and spiritually rich, one in which humanity flourishes in harmony with nature.

**William Ophuls** is the author of the award-winning *Ecology and the Politics of Scarcity* and *Requiem for Modern Politics*.

"A deep reminder of the perennial wisdom of environmentalism."

—Paul Wapner, *Review of Policy Research*

"A clear and compelling polemic."

—Laurence Coupe, *Times Higher Education*

October — 5 3/8 x 8, 272 pp.

**\$14.95T/£10.95 paper**

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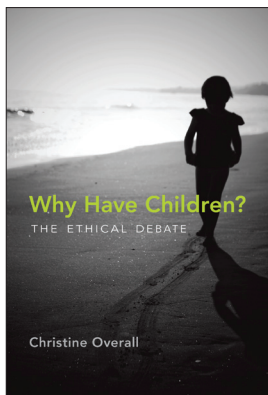
philosophy/women's studies

## Why Have Children?

The Ethical Debate

Christine Overall

In contemporary Western society, people are more often called upon to justify the choice not to have children



than they are to supply reasons for having them. In this book, Christine Overall maintains that the burden of proof should be reversed: that the choice to have children calls for more careful justification and reasoning than the choice not to. Arguing that the choice to have children is not just a prudential or pragmatic decision but one with ethical repercussions, Overall

offers a wide-ranging exploration of how we might think systematically and deeply about this fundamental aspect of human life. Writing from a feminist perspective, she also acknowledges the inevitably gendered nature of the decision; the choice has different meanings, implications, and risks for women than it has for men.

After considering a series of ethical approaches to procreation, and finding them inadequate or incomplete, Overall offers instead a novel argument. Exploring the nature of the biological parent-child relationship—which is not only genetic but also psychological, physical, intellectual, and moral—she argues that the formation of that relationship is the best possible reason for choosing to have a child.

**Christine Overall** is Professor of Philosophy and University Research Chair in the Department of Philosophy at Queen's University, Kingston, Ontario. She is the author of *Aging, Death, and Human Longevity: A Philosophical Inquiry* and other books.

"Clearly written and rigorously defended."

—**Deborah Lupton, LSE Review of Books**

"Cogently argued and exhaustively researched."

—**Publishers Weekly**

October — 6 x 9, 272 pp.

**\$16.95T/£11.95 paper**

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Basic Bioethics series

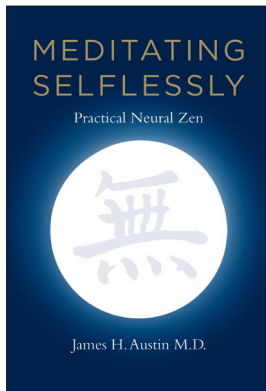
Buddhism/neuroscience

## Meditating Selflessly

Practical Neural Zen

James H. Austin, M.D.

This is not the usual kind of self-help book. Indeed, its major premise heeds a Zen master's advice to be



less self-centered. Yes, it is "one more book of words about Zen," as the author concedes, yet this book explains meditative practices from the perspective of a "neural Zen." The latest findings in brain research inform its suggestions. In *Meditating Selflessly*, James Austin—Zen practitioner, neurologist, and author of three acclaimed books on Zen and neuroscience—

guides readers toward that open awareness already awaiting them on the cushion and in the natural world.

Austin offers concrete advice—often in a simplified question-and-answer format—about different ways to meditate. He clarifies both the concentrative and receptive styles of meditation. Drawing widely from the exciting new field of contemplative neuroscience, Austin helps resolve an ancient paradox: why both insight wisdom *and* selflessness arise simultaneously during enlightened states of consciousness.

**James H. Austin**, a clinical neurologist, researcher, and Zen practitioner for more than three decades, is the author of *Zen and the Brain*, *Chase, Chance, and Creativity: The Lucky Art of Novelty*, *Zen-Brain Reflections*, and *Selfless Insight*, all published by the MIT Press.

"Austin has thus once more produced a practical and grounded work, designed to help us enhance our resilience to the exigencies of life, by gaining control of both conscious and non-conscious biases."

—**Roy Sugarman, Metapsychology**

"This extraordinary book on meditation is a perfect jewel, shedding light for the reader on the intricate and profound craft of the practice of meditation and the neuroscience of meditation."

—**Roshi Joan Halifax, Founding Abbot, Upaya Zen Center**

October — 5 3/8 x 8, 280 pp.

1 color illus., 8 black & white illus.

**\$14.95T/£10.95 paper**

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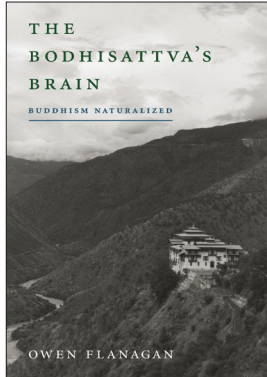
Buddhism/philosophy

## The Bodhisattva's Brain

Buddhism Naturalized

Owen Flanagan

If we are material beings living in a material world—and all the scientific evidence suggests that we are—then we must find



existential meaning, if there is such a thing, in this physical world. We must cast our lot with the natural rather than the supernatural. Many Westerners with spiritual (but not religious) inclinations are attracted to Buddhism—almost as a kind of moral-mental hygiene. But, as Owen Flanagan points out in *The Bodhisattva's Brain*,

Buddhism is hardly naturalistic. In *The Bodhisattva's Brain*, Flanagan argues that it is possible to discover in Buddhism a rich, empirically responsible philosophy that could point us to one path of human flourishing.

Some claim that neuroscience is in the process of validating Buddhism empirically, but Flanagan's naturalized Buddhism does not reduce itself to a brain scan showing happiness patterns. "Buddhism naturalized," as Flanagan constructs it, offers instead a fully naturalistic and comprehensive philosophy, compatible with the rest of knowledge—a way of conceiving of the human predicament, of thinking about meaning for finite material beings living in a material world.

**Owen Flanagan** is James B. Duke Professor of Philosophy at Duke University. He is the author of *Consciousness Reconsidered* and *The Really Hard Problem: Meaning in a Material World*, both published by the MIT Press, and other books.

"Brilliant. . . . Brings much needed clarity, insight and sophistication to the debate."

—**Julian Baggini, *The Observer***

"Owen Flanagan writes with warmth, wisdom and wit. *The Bodhisattva's Brain* is a milestone of cosmopolitan thought."

—**Evan Thompson, *TLS***

"This is an unusually wise and useful book."

—**Sam Harris, author of *The End of Faith***

October — 6 x 9, 280 pp. — 1 line drawing

**\$14.95T/£10.95 paper**

978-0-262-52520-6

cloth 2011

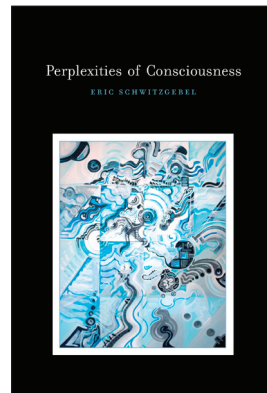
978-0-262-01604-9

philosophy

## Perplexities of Consciousness

Eric Schwitzgebel

Do you dream in color? If you answer Yes, how can you be sure? Before you recount your vivid memory



of a dream featuring all the colors of the rainbow, consider that in the 1950s researchers found that most people reported dreaming in black and white. In the 1960s, when most movies were in color and more people had color television sets, the vast majority of reported dreams contained color. The most likely explanation for this, according to the philosopher Eric

Schwitzgebel, is not that exposure to black-and-white media made people misremember their dreams. It is that we simply don't know whether or not we dream in color. In *Perplexities of Consciousness*, Schwitzgebel examines various aspects of inner life (dreams, mental imagery, emotions, and other subjective phenomena) and argues that we know very little about our stream of conscious experience.

Drawing broadly from historical and recent philosophy and psychology to examine such topics as visual perspective, and the unreliability of introspection, Schwitzgebel finds us singularly inept in our judgments about conscious experience.

**Eric Schwitzgebel**, Professor of Philosophy at the University of California, Riverside, is the coauthor (with Russell T. Hurlburt) of *Describing Inner Experience? Proponent Meets Skeptic* (MIT Press, 2007).

"The philosopher Eric Schwitzgebel, in *Perplexities of Consciousness*, contends that our minds, rather than being open-access, are largely hidden territory."

—**Nicholas Humphrey, *New York Times Book Review***

"An important contribution to the study of consciousness. The book has the liveliness found in the best non-fiction writing."

—**Sebastian Watzl and Wayne Wu, *Mind***

October — 6 x 9, 240 pp. — 6 illus.

**\$16.95T/£11.95 paper**

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978-0-262-01490-8

Life and Mind series

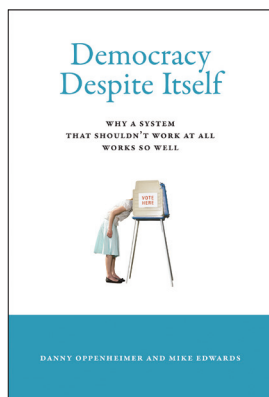
political science/psychology/current affairs

## Democracy Despite Itself

Why a System That Shouldn't Work at All Works So Well

Danny Oppenheimer and Mike Edwards

Voters often make irrational decisions based on inaccurate and irrelevant information. Politicians are often



inept, corrupt, or out of touch with the will of the people. Elections can be determined by the design of the ballot and the gerrymandered borders of a district. And yet, despite voters who choose candidates according to the boxer-brief dichotomy and politicians who struggle to put together a coherent sentence, democracy works exceptionally well: citizens of democracies

are healthier, happier, and freer than citizens of other countries. In *Democracy Despite Itself*, Danny Oppenheimer, a psychologist, and Mike Edwards, a political scientist, explore this paradox: How can democracy lead to such successful outcomes when the defining characteristic of democracy—elections—is so flawed?

Oppenheimer and Edwards argue that democracy works because regular elections, no matter how flawed, produce a variety of unintuitive, positive consequences. The brilliance of democracy, write Oppenheimer and Edwards, does not lie in the people's ability to pick superior leaders. It lies in the many ways that it subtly encourages the flawed people and their flawed leaders to work toward building a better society.

**Danny Oppenheimer** is on the faculty at UCLA with a joint appointment in Psychology and the Anderson School of Management. **Mike Edwards** founded and regularly contributes to *Leftfielder.org*, a blog on politics and media.

"A useful corrective to the cynicism that pervades so much political commentary."

—John J. Pitney Jr., *Washington Post*

October — 6 x 9, 256 pp. — 12 illus.

**\$16.95T/£11.95 paper**

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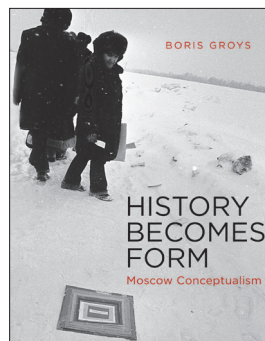
art

## History Becomes Form

Moscow Conceptualism

Boris Groys

In the 1970s and 1980s, a group of "unofficial" artists in Moscow—artists not recognized by the state, not



covered by state-controlled media, and cut off from wider audiences—created artworks that gave artistic form to a certain historical moment: the experience of Soviet socialism. The Moscow conceptualists not only reflected and analyzed by artistic means a spectacle of Soviet life but also preserved its memory

for a future that turned out to be different from the officially predicted one. They captured both the shabby austerity of everyday Soviet life and the utopian energy of Soviet culture. In *History Becomes Form*, Boris Groys offers a contemporary's account of what he calls the most interesting Russian artistic phenomenon since the Russian avant-garde.

The book collects Groys's essays on Moscow conceptualism, most of them written after his emigration to the West in 1981. The individual artists of the group—including Ilya Kabakov, Lev Rubinstein, and Ivan Chuikov—became known in the West after perestroika, but until now the artistic movement as a whole has received little attention. Groys's account sheds light not only on the Moscow Conceptualists and their work but also on the dilemmas of Soviet artists during the cold war.

**Boris Groys** is Professor of Russian and Slavic Studies at New York University. He is the author of many books, including *Ilya Kabakov: The Man Who Flew into Space from His Apartment* (2006) and *Art Power* (2008), both published by the MIT Press.

"Boris Groys's volume is not simply art criticism. It is a deep philosophy of art and life, an almost political philosophy."

—Inna Semetsky, *The European Legacy*

October — 6 x 9, 208 pp. — 92 illus.

**\$14.95T/£10.95 paper**

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art

## The Absence of Work

Marcel Broodthaers, 1964–1976

Rachel Haidu

In 1964, at age forty, Marcel Broodthaers (1924–1976) proclaimed that his years of writing poetry—of being “good for nothing,” in his words—were over, and a brief but dazzling artistic career began.



The Absence of Work  
Marcel Broodthaers, 1964–1976  
Rachel Haidu

Considered a founding father of institutional critique, Broodthaers created hundreds of objects, books, films, photographs and exhibitions, including a “fictive” museum of modern art that evolved from an installation in his own home to a massive exhibition of

over three hundred works representing eagles. In *The Absence of Work*, Rachel Haidu argues that all of Broodthaers’s art is defined by its relationship to language. His perception of his poetry’s “failure to communicate” led him to explore in his art the non-communicative, nontransparent uses of words.

Haidu’s characterization of Broodthaers’s contribution to institutional critique represents a major departure from the usual approach to this movement. With *The Absence of Work*, one of the first monographs on Broodthaers in English, Haidu demystifies a crucial and enigmatic figure in postwar and contemporary art.

**Rachel Haidu** is Associate Professor in the Department of Art and Art History and the Graduate Program in Visual and Cultural Studies at the University of Rochester.

“A fascinating study of one of the foremost artists of the postwar period. . . . Impressive, intelligent, and inspired.”

—**Anne Rorimer**, author of *New Art in the 60s and 70s: Redefining Reality*

“Intellectually sophisticated and historically precise,”

—**Kirsi Peltomäki**, Department of Art, Oregon State University, author of *Situation Aesthetics: The Work of Michael Asher*

October — 7 x 9, 400 pp. — 46 illus.

**\$28.95T/£19.95 paper**  
978-0-262-52509-1

cloth 2010  
978-0-262-01450-2

An October Book

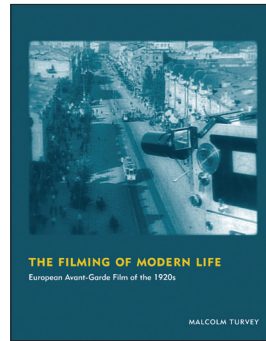
film/art

## The Filming of Modern Life

European Avant-Garde Film of the 1920s

Malcolm Turvey

In the 1920s, the European avant-garde embraced the cinema, experimenting with the medium in radical



ways. Painters including Hans Richter and Fernand Léger as well as filmmakers belonging to such avant-garde movements as Dada and surrealism made some of the most enduring and fascinating films in the history of cinema.

In *The Filming of Modern Life*, Malcolm Turvey examines five films from the avant-garde

canon and the complex, sometimes contradictory, attitudes toward modernity they express: *Rhythm 21* (Hans Richter, 1921), *Ballet mécanique* (Dudley Murphy and Fernand Léger, 1924), *Entr’acte* (Francis Picabia and René Clair, 1924), *Un chien Andalou* (Salvador Dalí and Luis Buñuel, 1929), and *Man with a Movie Camera* (Dziga Vertov, 1929). All exemplify major trends within European avant-garde cinema of the time, from abstract animation to “cinéma pur.” All five films embrace and resist, in their own ways, different aspects of modernity.

**Malcolm Turvey** is Professor of Film History at Sarah Lawrence College and an editor of *October*. He is the author of *Doubting Vision: Film and the Revelationist Tradition*.

“Combining lucid readings of five central avant-garde films from the 1920s, Malcolm Turvey’s *The Filming of Modern Life* cogently challenges the clichés of academic film history.”

—**P. Adams Sitney**, *Lewis Center for the Arts, Princeton University*, and author, *Visionary Film*

“Remarkably thorough and succinct. . . . Honors the chaos and conflict of the seminal 1920s modernist art movements and makes for a perfect literary complement to its complicated subject.”

—**Tom Kemper**, *The Moving Image*

October — 7 x 9, 232 pp. — 88 illus.

**\$16.95T/£11.95 paper**  
978-0-262-52511-4

cloth 2011  
978-0-262-01518-9

An October Book

memoir/dance/film studies

## Feelings Are Facts

A Life

Yvonne Rainer

If you're interested in Plato, you're reading the wrong book. If you're interested in difficult childhoods, sexual misadventures, aesthetics, cultural history, and the reasons that a club sandwich and other meals—including breakfast—have remained in the memory of the present writer, keep reading.

—from *Feelings Are Facts*

**Memoir by the avant-garde dancer, choreographer, and filmmaker recounting her childhood years, sexual misadventures, and artistic explorations.**

October  
7 x 9, 496 pp.  
143 illus.

**\$28.95T/£19.95 paper**  
978-0-262-52510-7

cloth 2006  
978-0-262-18251-5

Writing Art series

In this memoir, dancer, choreographer, and filmmaker Yvonne Rainer traces her personal and artistic coming of age. *Feelings Are Facts* (the title comes from a dictum by Rainer's one-time psychotherapist) uses diary entries, letters, program notes, excerpts from film scripts, snapshots, and film-frame enlargements to present a vivid portrait of an extraordinary artist and woman in postwar America.

Rainer tells of a California childhood in which she was farmed out by her parents to foster families and orphanages, of sexual and intellectual initiations in San Francisco and Berkeley, and of artistic discoveries and accomplishments in the New York City dance world. Rainer studied with Martha Graham and Merce Cunningham in the late 1950s and early 1960s, cofounded the Judson Dance Theater in 1962, hobnobbed with New York artists including Robert Rauschenberg, Robert Morris (her lover and partner for several years), and Yoko Ono, and became involved with feminist and antiwar causes in the 1970s and 1980s. Rainer writes about how she constructed her dances—including *The Mind Is a Muscle* and its famous section, *Trio A*, as well as the recent *After Many a Summer Dies the Swan*—and about turning from dance to film and back to dance. And she writes about meeting her longtime partner Martha Gever and discovering the pleasures of domestic life.

**Yvonne Rainer** is a dancer, choreographer, and filmmaker.

"One of the most exciting dance autobiographies ever put to ink."

—**Time Out New York**

"Rainer's prose is alarmingly frank, touched with mordant humor and a blunt brand of brilliance."

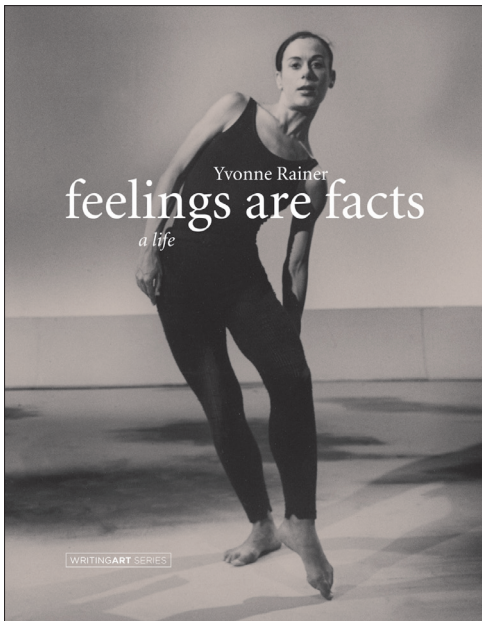
—**Wendy Perron, *Dance Magazine***

"We are absorbed as if by a gripping novel and riveted by an essential account of an era."

—**Douglas Crimp, Fanny Knapp Allen Professor of Art History, University of Rochester**

"The same bracing honesty, sly wit, human insight, and formal brilliance that have made Yvonne Rainer among the most influential figures of her generation make *Feelings are Facts* an irresistible pleasure."

—**Nicholas Baume, Chief Curator, Institute of Contemporary Art, Boston**





neuroscience/health

## Infectious Behavior

Brain-Immune Connections in Autism, Schizophrenia, and Depression

Paul H. Patterson

In *Infectious Behavior*, neurobiologist Paul Patterson examines the involvement of the immune system in autism, schizophrenia, and major depressive disorder. Although genetic approaches to these diseases have garnered the lion's share of publicity and funding, scientists are uncovering evidence of the important avenues of communication between the brain and the immune system and their involvement in mental illness. Patterson focuses on this brain-immune

crosstalk, exploring the possibility that it may help us understand the causes of these common but still mysterious diseases. The heart of this engaging book, accessible to nonscientists, concerns the involvement of the immune systems of the pregnant woman and her fetus, and a consideration of maternal infection as a risk factor for schizophrenia and autism. Patterson reports on research that may shed light on today's autism epidemic. He also outlines the risks and benefits of both maternal and postnatal vaccinations.

**Paul H. Patterson**, a developmental neurobiologist, is Anne P. and Benjamin R. Biaggini Professor of Biological Sciences at the California Institute of Technology and a Research Professor of Neurological Surgery at the University of Southern California's Keck School of Medicine. He is the coauthor (with Alan Brown) of *The Origins of Schizophrenia*.

"Patterson's book is so clear and compelling that it will appeal to clinicians awaiting novel disease models with new opportunities for prevention and cure, family members endlessly pondering the source of their loved one's ailment, and any reader who enjoys medical detective stories."

—Dolores Malaspina, *American Journal of Psychiatry*

October — 6 x 9, 176 pp.  
3 color plates, 24 black & white illus.

**\$12.95T/£9.95 paper**  
978-0-262-52534-3

cloth 2011  
978-0-262-01645-2

technology/science

## The Techno-Human Condition

Braden R. Allenby and Daniel Sarewitz

In *The Techno-Human Condition*, Braden Allenby and Daniel Sarewitz explore what it means to be human in an era of incomprehensible technological complexity and change. They argue that if we are to have any prospect of managing that complexity, we will need to escape the shackles of current assumptions about rationality, progress, and certainty, even as we maintain a commitment to fundamental human values.

Humans have been co-evolving with their technologies since the dawn of prehistory. What is different now is that we have moved beyond external technological interventions to transform ourselves from the inside out—even as we also remake the Earth system itself. Coping with this new reality, say Allenby and Sarewitz, means liberating ourselves from such categories as "human," "technological," and "natural" to embrace a new techno-human relationship.

**Braden R. Allenby** is Founding Director of the Center for Earth Systems Engineering and Management, Lincoln Professor of Engineering and Ethics, and Professor of Civil and Environmental Engineering at Arizona State University. **Daniel Sarewitz** is Professor of Science and Society and Cofounder and Codirector of the Consortium for Science, Policy, and Outcomes at Arizona State University.

**2012 Lewis Mumford Award for Outstanding Scholarship in the Ecology of Technics, presented by the Media Ecology Association**

"Thoughtful and provocative."

—Steven Poole, *The Guardian*

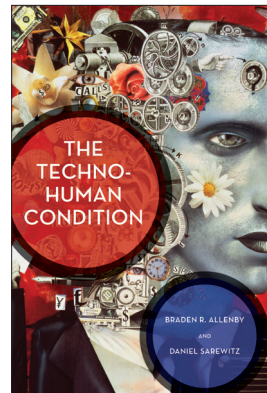
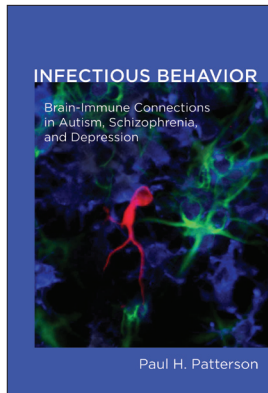
"The book makes a compelling case that debates over transhumanism must be recontextualized beyond assumptions of individual autonomy and agency."

—N. Katherine Hayles, *Technology and Culture*

October — 5 3/8 x 8, 240 pp. — 1 illus.

**\$14.95T/£10.95 paper**  
978-0-262-52525-1

cloth 2011  
978-0-262-01569-1



bioethics/philosophy of science

## Humanity's End

Why We Should Reject Radical Enhancement

Nicholas Agar

Proposals to make us smarter than the greatest geniuses or to add thousands of years to our life spans seem fit only for the spam folder or trash can. And yet this is what contemporary advocates of radical enhancement offer in all seriousness. They present a variety of technologies and therapies that will expand our capacities far beyond what is currently possible for human beings. In *Humanity's End*, Nicholas Agar argues against radical enhancement.

Agar examines the proposals of four prominent radical enhancers: Ray Kurzweil, who argues that technology will enable our escape from human biology; Aubrey de Grey, who calls for anti-aging therapies that will achieve “longevity escape velocity”; Nick Bostrom, who defends the morality and rationality of enhancement; and James Hughes, who envisions a harmonious democracy of the enhanced and the unenhanced. Agar argues that the outcomes of radical enhancement could be darker than the rosy futures described by these thinkers. The most dramatic means of enhancing our cognitive powers could in fact kill us; the radical extension of our life span could eliminate experiences of great value from our lives; and a situation in which some humans are radically enhanced and others are not could lead to tyranny of posthumans over humans.

**Nicholas Agar** is Reader in Philosophy at Victoria University of Wellington, New Zealand.

### Choice Outstanding Academic Title, 2011

“Agar’s analysis is philosophically astute, empirically informed, and historically shrewd. It is a welcome corrective to the occasional extravagancies of the human sciences.”

—Peter Takacs, *Quarterly Review of Biology*

September — 6 x 9, 232 pp.

**\$17.00S/£11.95 paper**  
978-0-262-52517-6

cloth 2010  
978-0-262-01462-5

Life and Mind series

neuroscience/psychology

## How We Remember

Brain Mechanisms of Episodic Memory

Michael E. Hasselmo

Episodic memory proves essential for daily function, allowing us to remember where we parked the car, what time we walked the dog, or what a friend said earlier. In *How We Remember*, Michael Hasselmo draws on recent developments in neuroscience to present a new model describing the brain mechanisms for encoding and remembering such events as spatiotemporal trajectories. He reviews physiological break-

throughs on the regions implicated in episodic memory, including the discovery of grid cells, the cellular mechanisms of persistent spiking and resonant frequency, and the topographic coding of space and time. These discoveries inspire a theory for understanding the encoding and retrieval of episodic memory not just as discrete snapshots but as a dynamic replay of spatiotemporal trajectories, allowing us to “retrace our steps” to recover a memory.

In the main text of the book, he presents the model in narrative form, accessible to scholars and advanced undergraduates in many fields. In the appendix, he presents the material in a more quantitative style, providing mathematical descriptions appropriate for advanced undergraduates and graduate students in neuroscience or engineering.

**Michael E. Hasselmo** is Professor of Psychology and Director of the Computational Neurophysiology Laboratory at Boston University, where he is also a faculty member in the Center for Memory and Brain and the Program in Neuroscience and principal investigator on grants from the National Institute of Mental Health and the Office of Naval Research.

“A valuable resource of information to both readers naive of the principles of neuroscience and more experienced brain researchers.”

—Vassilis Cutsuridis, *Hippocampus*

September — 7 x 9, 384 pp.  
8 color plates, 111 black & white illus.,

**\$22.00S/£15.95 paper**  
978-0-262-52533-6

cloth 2011  
978-0-262-01635-3

philosophy/cognitive science

## Plato's Camera

How the Physical Brain Captures a Landscape of Abstract Universals

**Paul M. Churchland**

In *Plato's Camera*, eminent philosopher Paul Churchland offers a novel account of how the brain constructs a representation—or “takes a picture”—of the universe’s timeless categorical and dynamical structure. This construction process, which begins at birth, yields the enduring background conceptual framework with which we will interpret our sensory experience for the rest of our lives. But, as even Plato knew, to make singular perceptual judgments requires that we possess an *antecedent* framework of abstract categories to which any perceived particular can be relevantly assimilated. How that background framework is assembled in the first place is the motivating mystery, and the primary target, of Churchland’s book.

Unexpectedly, this neurobiologically grounded account of human cognition also provides a systematic story of how such low-level epistemological activities are integrated within an enveloping framework of linguistic structures and regulatory mechanisms at the social level. As Churchland illustrates, this integration of cognitive mechanisms at several levels has launched the human race on an epistemological adventure denied to all other terrestrial creatures.

**Paul M. Churchland** is Emeritus Professor of Philosophy at the University of California, San Diego. He is the author of *The Engine of Reason, the Seat of the Soul, Matter and Consciousness: A Contemporary Introduction to the Philosophy of Mind* (both published by the MIT Press), and other books.

“If a book’s success is judged both by the scope of its material and by the amount of the novelty it brings, then Churchland’s new book is an unqualified success.”

—**Athanasios Raftopoulos, *Metascience***

“Paul Churchland delivers a measured and engaging account of the activation-vector-space framework for understanding the brain as an organ of thought, imagination, and reason. This delightful treatment takes us further, however, addressing in significant detail the impact of cultural and linguistic practice on learning and thought. *Plato's Camera* is a must-read for those interested in the nature and possibility of human epistemic contact with the world.”

—**Andy Clark, FRSE, Professor of Logic and Metaphysics, University of Edinburgh**

“*Plato's Camera* is a startlingly original and deeply scientifically informed work that provides answers to the most fundamental questions of epistemology and philosophy of mind. . . . There are very few books in philosophy that deserve to be called ‘deep.’ *Plato's Camera* is deep.”

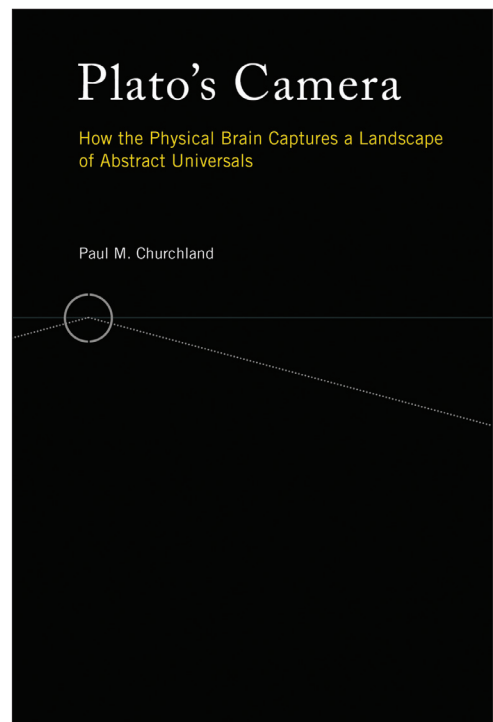
—**Owen Flanagan, James B. Duke Professor of Philosophy at Duke University; author of *The Bodhisattva's Brain***

**A noted philosopher draws on the empirical results and conceptual resources of cognitive neuroscience to address questions about the nature of knowledge.**

September  
6 x 9, 304 pp.  
12 color illus.,  
34 black & white illus.

**\$18.00S/£12.95 paper**  
978-0-262-52518-3

cloth 2012  
978-0-262-01686-5



Internet studies/sociology

## Digitally Enabled Social Change

Activism in the Internet Age

Jennifer Earl and Katrina Kimport

Much attention has been paid in recent years to the emergence of “Internet activism,” but scholars and pundits disagree about whether online political activity is different in kind from more traditional forms of activism. Does the global reach and blazing speed of the Internet affect the essential character or dynamics of online political protest? In *Digitally Enabled Social Change*, Jennifer Earl and Katrina Kimport examine key characteristics of web activism and investigate their impacts on organizing and participation.

Earl and Kimport argue that the web offers two key affordances relevant to activism: sharply reduced costs for creating, organizing, and participating in protest; and the decreased need for activists to be physically together in order to act together. Drawing on evidence from samples of online petitions, boycotts, and letter-writing and e-mailing campaigns, Earl and Kimport show that the more these affordances are leveraged, the more transformative the changes to organizing and participating in protest.

**Jennifer Earl** is Professor of Sociology at the University of Arizona. **Katrina Kimport** is Assistant Professor with ANSIRH, a program of the Bixby Center for Global Reproductive Health at the University of California, San Francisco.

“Must-reading for anyone who hopes to understand online and offline activism in the age of the Internet.”

—**Doug McAdam**, Professor of Sociology, Stanford University

September — 6 x 9, 266 pp. — 7 illus.

**\$17.00S/£11.95 paper**

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Acting with Technology series

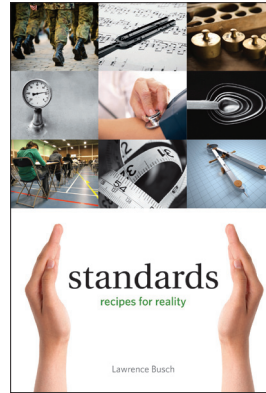
science, technology, and society

## Standards

Recipes for Reality

Lawrence Busch

Standards are the means by which we construct realities. There are established standards for profes-



sional accreditation, the environment, consumer products, animal welfare, the acceptable stress for highway bridges, healthcare, education—for almost everything. We are surrounded by a vast array of standards, many of which we take for granted but each of which has been and continues to be the subject of intense negotiation. In this

book, Lawrence Busch investigates standards as “recipes for reality.” Standards, he argues, shape not only the physical world around us but also our social lives and even our selves.

Busch shows how standards are intimately connected to power—that they often serve to empower some and disempower others. He outlines the history of formal standards and describes how modern science came to be associated with the moral-technical project of standardization of both people and things. Busch suggests guidelines for developing fair, equitable, and effective standards. Taking a uniquely integrated and comprehensive view of the subject, Busch shows how standards for people and things are inextricably linked, how standards are always layered (even if often addressed serially), and how standards are simultaneously technical, social, moral, legal, and ontological devices.

**Lawrence Busch** is University Distinguished Professor in the Center for the Study of Standards and Society in the Department of Sociology at Michigan State University.

“Standards will be fascinating and provocative reading for social scientists looking for a different way to slice social life.”

—**Stefan Timmermans**, *American Journal of Sociology*

“A stimulating account of how and why we create standards.”

—**Evgeny Morozov**, *Wall Street Journal*

September — 6 x 9, 402 pp. — 14 illus.

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cloth 2011

978-0-262-01638-4

Infrastructures series

political science/international security

## Democracy's Arsenal

Creating a Twenty-First-Century Defense Industry

Jacques S. Gansler

New geopolitical realities—including terrorism, pandemics, rogue nuclear states, resource conflicts, insurgencies, mass migration, economic collapse, and cyber attacks—have created a dramatically different national-security environment for America. Twentieth-century defense strategies, technologies, and industrial practices will not meet the security requirements of a post-9/11 world. In *Democracy's Arsenal*, Jacques Gansler describes the transformations

needed in government and industry to achieve a new, more effective system of national defense. Drawing on his decades of experience in industry, government, and academia, Gansler argues that the old model of ever-increasing defense expenditures on largely outmoded weapons systems must be replaced by a strategy that combines a healthy economy, effective international relations, and a strong (but affordable) national security posture. The defense industry must remake itself to become responsive and relevant to the needs of twenty-first-century security.

**Jacques S. Gansler** is the author of the influential books *The Defense Industry*, *Affording Defense*, and *Defense Conversion: Transforming the Arsenal of Democracy*, all published by the MIT Press. He is currently Professor and Roger C. Lipitz Chair in Public Policy and Private Enterprise in the School of Public Policy and Director of the Sloan Center Biotechnology Industry Center at the University of Maryland. He was Under Secretary of Defense for Acquisition, Technology, and Logistics from 1997 to 2001.

"*Democracy's Arsenal* is a brilliant analysis of what is needed to reform an obsolete, complex, unadaptive system that is an invitation to failure in our hour of need. Don't walk to the nearest bookstore—run."

—William S. Cohen, former Secretary of Defense and former U.S. Senator

September — 7 x 9, 448 pp. — 32 illus.

**\$28.00S/£19.95 paper**  
978-0-262-52523-7

cloth 2011  
978-0-262-07299-1

environment/sociology

## Recycling Reconsidered

The Present Failure and Future Promise of Environmental Action in the United States

Samantha MacBride

Recycling is widely celebrated as an environmental success story. The accomplishments of the recycling movement can be seen in municipal practice, a thriving private recycling industry, and widespread public support and participation. In the United States, more people recycle than vote. But, as Samantha MacBride points out in this book, the goals of recycling—saving the earth (and trees), conserving resources, and greening the economy—are still far from being realized.

The vast majority of solid wastes are still burned or buried. MacBride argues that, since the emergence of the recycling movement in 1970, manufacturers of products that end up in waste have successfully prevented the implementation of more onerous, yet far more effective, forms of sustainable waste policy.

MacBride offers a series of case studies in recycling that pose provocative questions about whether the current ways we deal with waste are really the best ways to bring about real sustainability and environmental justice. She does not aim to debunk or discourage recycling but to help us think beyond recycling as it is today.

**Samantha MacBride** teaches at Columbia University's School of Public and International Affairs and is a professional in local waste governance.

"An invaluable contribution to the environmental sustainability discussion."

—Rick Docksai, *World Future Review*

"In *Recycling Reconsidered* MacBride has produced that rare work that marries critical theory with on-the-ground experience."

—Graham Pickren, *Environment and Planning*

September — 6 x 9, 320 pp.

**\$18.00S/£12.95 paper**  
978-0-262-52524-4

cloth 2011  
978-0-262-01600-1

Urban and Industrial Environments series

new media/art

## Imagery in the 21st Century

edited by **Oliver Grau**

with **Thomas Veigl**

We are surrounded by images as never before: on Flickr, Facebook, and YouTube; on thousands of television channels; in digital games and virtual worlds; in media art and science. Without new efforts to visualize complex ideas, structures, and systems, today's information explosion would be unmanageable. The digital image represents endless options for manipulation; images seem capable of changing interactively or even autonomously. This volume offers systematic and interdisciplinary reflections on these new image worlds and new analytical approaches to the visual.

*Imagery in the 21st Century* examines this revolution in various fields, with researchers from the natural sciences and the humanities meeting to achieve a deeper understanding of the meaning and impact of the image in our time.

The contributors explore and discuss new critical terms of multidisciplinary scope, from database economy to the dramaturgy of hypermedia, from visualizations in neuroscience to the image in bio art. They consider the power of the image in the development of human consciousness, pursue new definitions of visual phenomena, and examine new tools for image research and visual analysis.

**Oliver Grau** is Professor for Image Science and Dean of the Department for Cultural Studies at Danube University. He is the author of *Virtual Art: From Illusion to Immersion* (2003) and editor of *MediaArtHistories* (2007), both published by the MIT Press. **Thomas Veigl** is on the scientific staff of the Department for Image Science at the Danube–University Krems.

"A fabulous resource for the reflection on contemporary visuality."

—**Trebor Scholz, the New School**

September — 7 x 9, 416 pp. — 132 illus.

**\$28.00S/£19.95 paper**

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978-0-262-01572-1

philosophy/art theory

## Semblance and Event

Activist Philosophy and the Occurrent Arts

**Brian Massumi**

Events are always passing; to experience an event is to experience the passing. But how do we perceive an experience that encompasses the just-was and the is-about-to-be as much as what is actually present? In *Semblance and Event*, Brian Massumi, drawing on the work of William James, Alfred North Whitehead, Gilles Deleuze, and others, develops the concept of "semblance" as a way to approach this question.

It is, he argues, a question of abstraction, not as the opposite of the concrete but as a dimension of it: "lived abstraction." A semblance is a lived abstraction. Massumi uses the category of the semblance to investigate practices of art that are relational and event-oriented—variously known as interactive art, ephemeral art, performance art, art intervention—which he refers to collectively as the "occurrent arts." Each art practice invents its own kinds of relational events of lived abstraction, to produce a signature species of semblance. The artwork's relational engagement, Massumi continues, gives it a political valence just as necessary and immediate as the aesthetic dimension.

**Brian Massumi** is Professor in the Department of Communication Sciences at the University of Montréal. He is the author of *Parables for the Virtual: Movement, Affect, Sensation* and *A User's Guide to Capitalism and Schizophrenia: Deviations from Deleuze and Guattari* (MIT Press).

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**Mark J. Warshawsky** is Director of Retirement Research at Towers Watson, former member of the Social Security Advisory Board, and coauthor of *The Role of Annuity Markets in Financing Retirement* (MIT Press).

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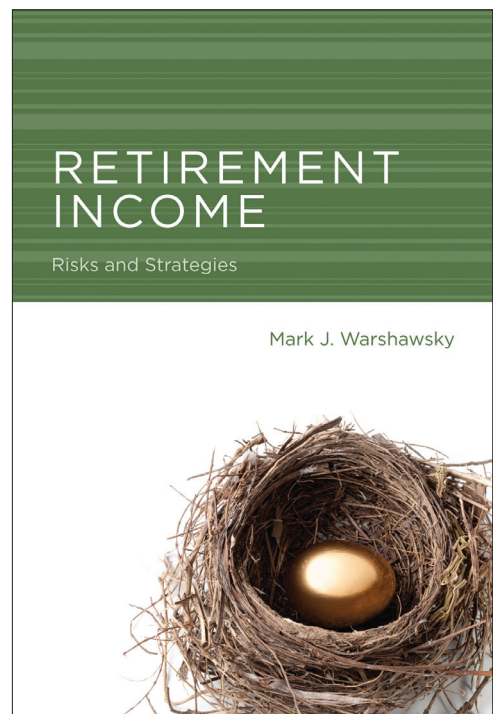
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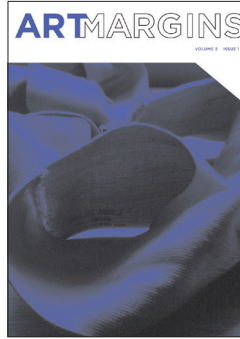
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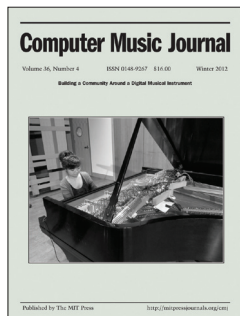
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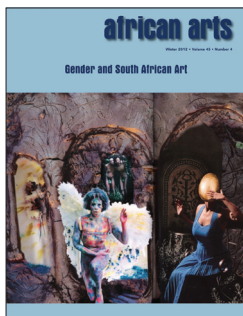


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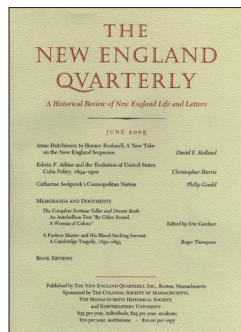
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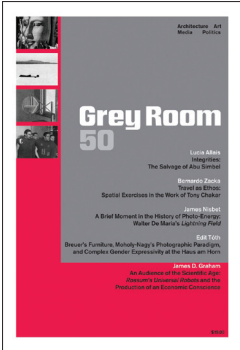
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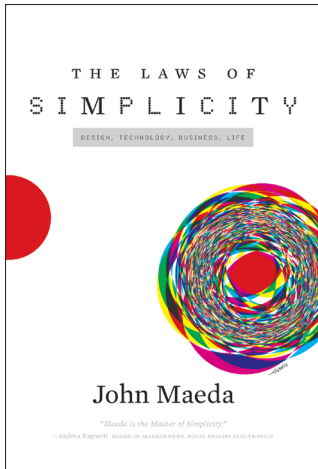
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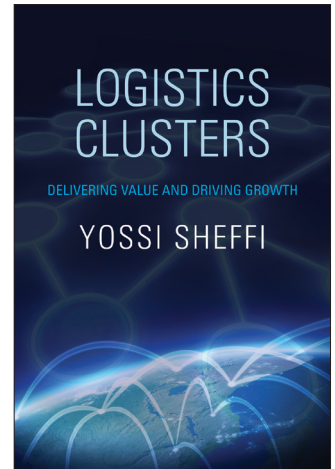
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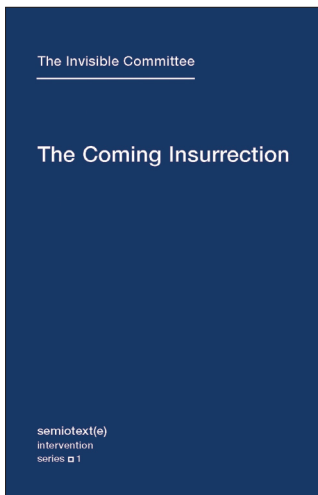
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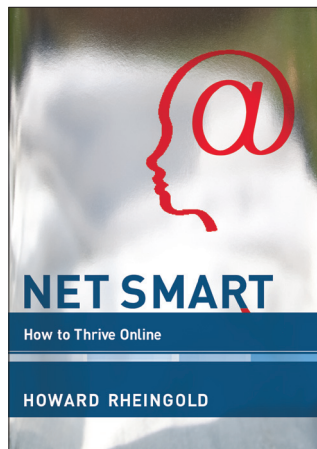
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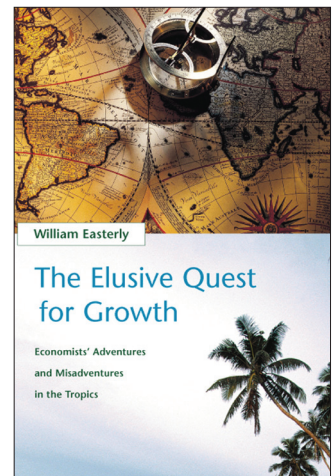
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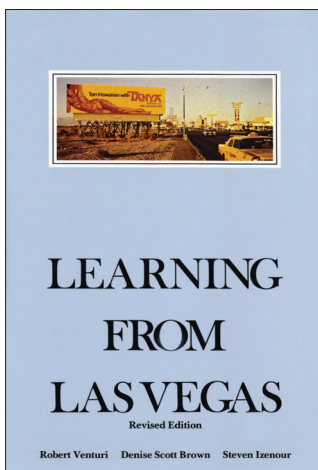
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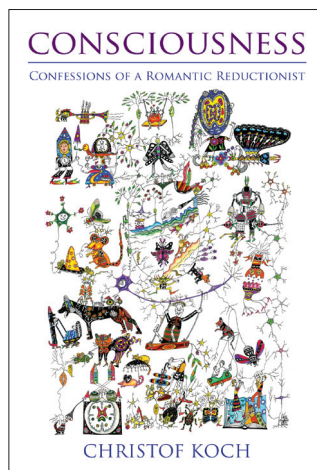
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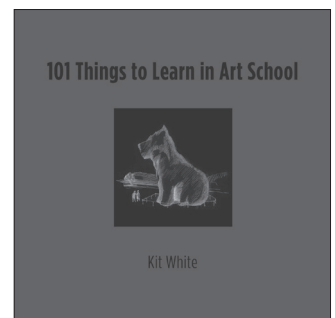
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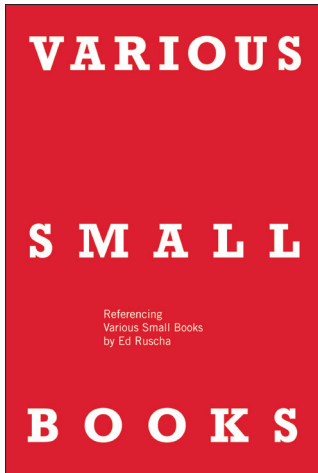


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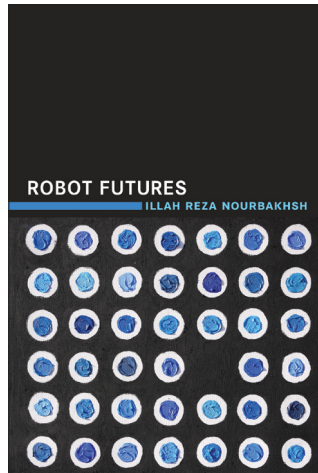


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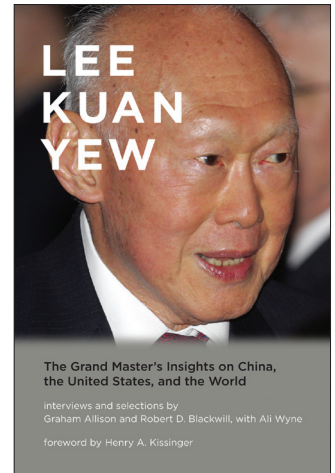
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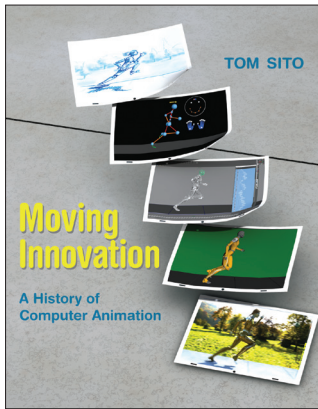
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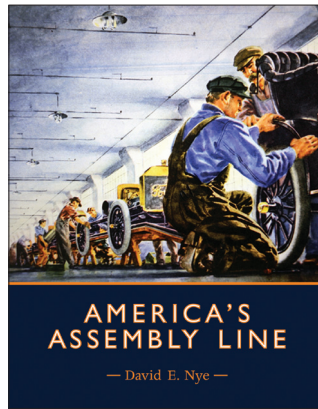
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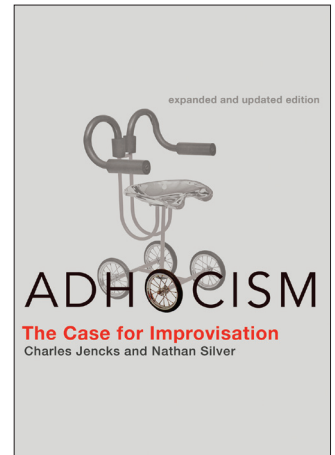
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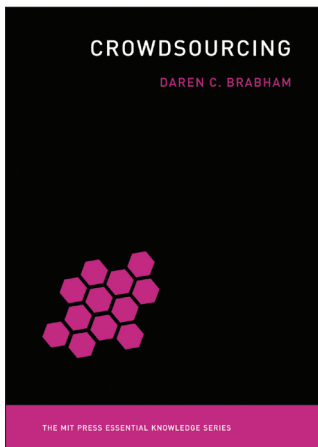
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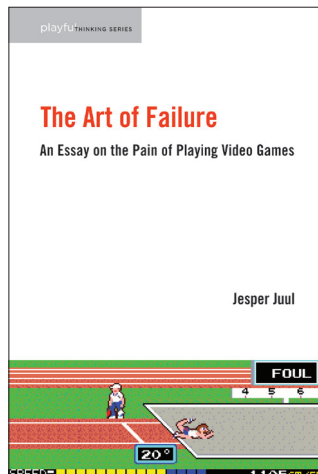
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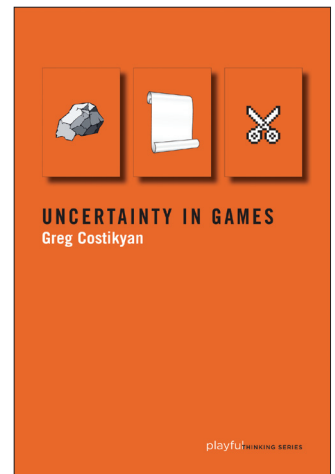
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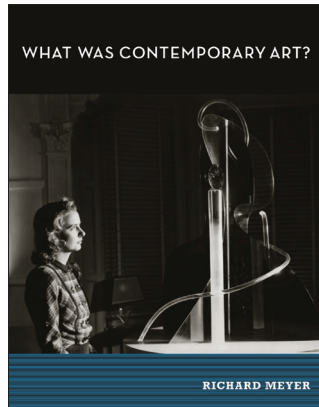
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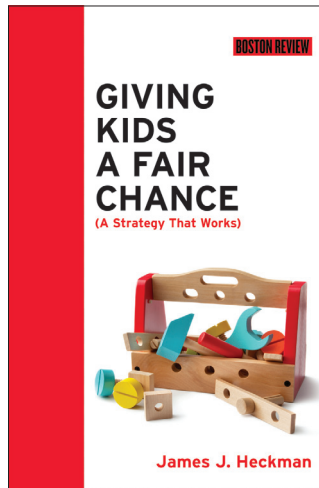
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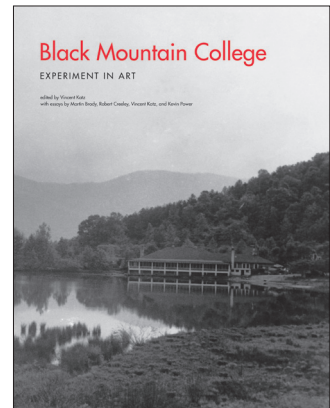
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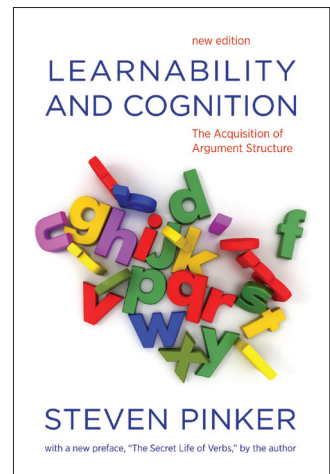
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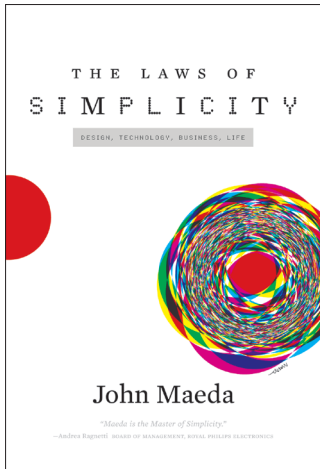
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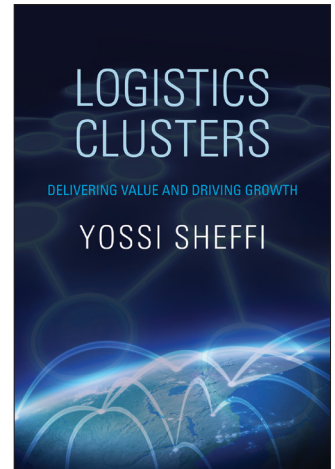
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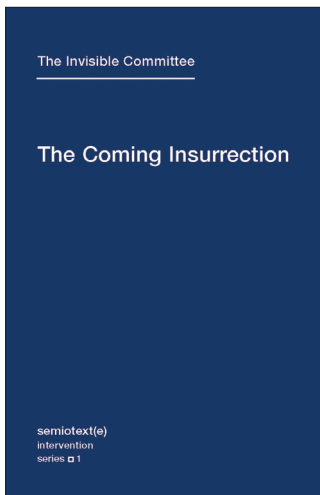
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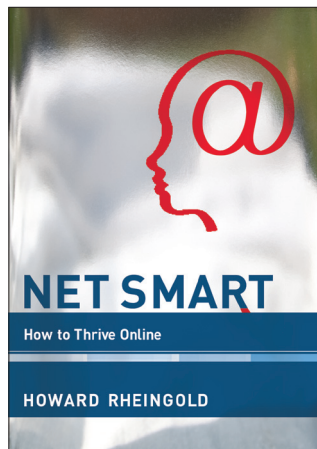
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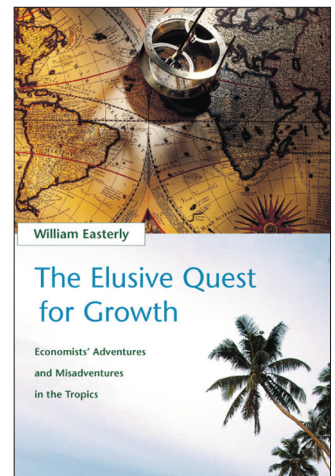
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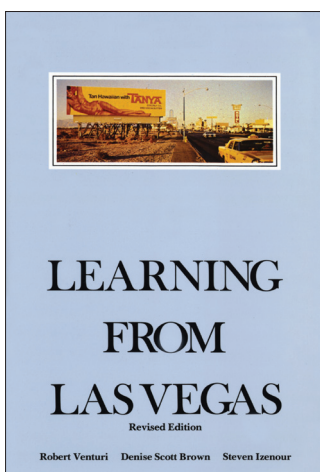
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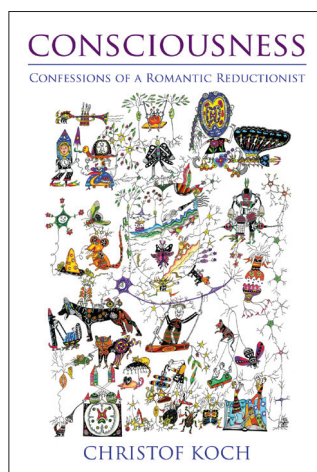
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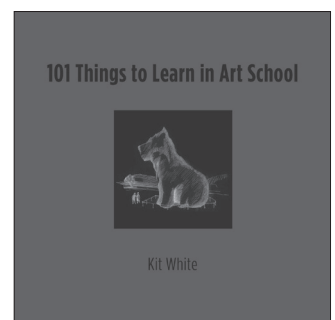
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