

ALEXANDER THE GREAT AND HIS EMPIRE

A Short Introduction

PIERRE BRIANT

Translated by Amélie Kuhrt

This is the first publication in English of Pierre Briant's classic short history of Alexander the Great's conquest of the Persian empire, from the Mediterranean to Central Asia. Eschewing a conventional biographical focus, this is the only book in any language that sets the rise of Alexander's short-lived empire within the broad context of ancient Near Eastern history under Achaemenid Persian rule, as well as against Alexander's Macedonian background. As a renowned historian of both the Macedonians and the Persians, Briant is uniquely able to assess Alexander's significance from the viewpoint of both the conquerors and the conquered, and to trace what changed and what stayed the same as Alexander and the Hellenistic world gained ascendancy over Darius's Persia.

After a short account of Alexander's life before his landing in Asia Minor, the book gives a brief overview of the major stages of his conquest. This background sets the stage for a series of concise thematic chapters that explore the origins and objectives of the conquest; the nature and significance of the resistance it met; how the conquered lands were administered, defended, and exploited; the varying nature of Alexander's relations with the Macedonians, Greeks, and Persians; and the problems of succession following Alexander's death.

For this translation, Briant has written a new foreword and conclusion, updated the main text and the thematic annotated bibliography, and added a substantial appendix in which he assesses the current state of Alexander historiography and suggests some directions for future research.

More than ever, this masterful work provides an original and important perspective on Alexander and his empire.

Pierre Briant is the Professor of the History and Civilization of the Achaemenid World and the Empire of Alexander the Great at the Collège de France. His many books include *From Cyrus to Alexander: A History of the Persian Empire*.

FOR THE FIRST TIME IN ENGLISH, A CLASSIC
ACCOUNT OF ALEXANDER THE GREAT'S
CONQUEST AND ITS IMPACT ON THE CONQUERED

"Pierre Briant is a scholar of the highest international standing. His book is set apart from the plethora of biographies of Alexander the Great by its focus on his origins and aims, the way he administered and organized his empire, and especially his impact on the areas he conquered, the last of which almost no other books address."

—Ian Worthington, author of *Alexander the Great: Man and God* and *Philip II of Macedonia*

MAY

Cloth \$24.95S

978-0-691-14194-7

168 pages. 10 halftones. 3 maps. 5 1/2 x 8 1/2.

ANCIENT HISTORY ■ CLASSICS

PRESS.PRINCETON.EDU

THE CATTLE OF THE SUN

Cows and Culture in the World
of the Ancient Greeks

JEREMY MCINERNEY

Though Greece is traditionally seen as an agrarian society, cattle were essential to Greek communal life, through religious sacrifice and dietary consumption. Cattle were also pivotal in mythology: gods and heroes stole cattle, expected sacrifices of cattle, and punished those who failed to provide them. *The Cattle of the Sun* ranges over a wealth of sources, both textual and archaeological, to explore why these animals mattered to the Greeks, how they came to be a key element in Greek thought and behavior, and how the Greeks exploited the symbolic value of cattle as a way of structuring social and economic relations.

Jeremy McInerney explains that cattle's importance began with domestication and pastoralism: cattle were nurtured, bred, killed, and eaten. Practically useful and symbolically potent, cattle became social capital to be exchanged, offered to the gods, or consumed collectively. This circulation of cattle wealth structured Greek society, since dedication to the gods, sacrifice, and feasting constituted the most basic institutions of Greek life. McInerney shows that cattle contributed to the growth of sanctuaries in the Greek city-states, as well as changes in the economic practices of the Greeks, from the Iron Age through the classical period, as a monetized, market economy developed from an earlier economy of barter and exchange.

Combining a broad theoretical approach with a careful reading of sources, *The Cattle of the Sun* illustrates the significant position that cattle held in the culture and experiences of the Greeks.

Jeremy McInerney is the Davidson Kennedy Professor of Classical Studies at the University of Pennsylvania and author of *The Folds of Parnassos*.

JULY

Cloth \$39.50S

978-0-691-14007-0

336 pages. 10 halftones. 1 table. 6 x 9.

ANCIENT HISTORY ■ CLASSICS

THE SYMPTOM AND THE SUBJECT

The Emergence of the Physical Body
in Ancient Greece

BROOKE HOLMES

The Symptom and the Subject takes an in-depth look at how the physical body first emerged in the West as both an object of knowledge and a mysterious part of the self. Beginning with Homer, moving through classical-era medical treatises, and closing with studies of early ethical philosophy and Euripidean tragedy, this book rewrites the traditional story of the rise of body-soul dualism in ancient Greece. Brooke Holmes demonstrates that as the body (*sôma*) became a subject of physical inquiry, it decisively changed ancient Greek ideas about the meaning of suffering, the soul, and human nature.

By undertaking a new examination of biological and medical evidence from the sixth through fourth centuries BCE, Holmes argues that it was in large part through changing interpretations of symptoms that people began to perceive the physical body with the senses and the mind. Once attributed primarily to social agents like gods and daemons, symptoms began to be explained by physicians in terms of the physical substances hidden inside the person. Imagining a daemonic space inside the person but largely below the threshold of feeling, these physicians helped to radically transform what it meant for human beings to be vulnerable, and ushered in a new ethics centered on the responsibility of taking care of the self.

The Symptom and the Subject highlights with fresh importance how classical Greek discoveries made possible new and deeply influential ways of thinking about the human subject.

Brooke Holmes is assistant professor of classics at Princeton University.

JUNE

Cloth \$45.00S

978-0-691-13899-2

392 pages. 6 x 9.

CLASSICS ■ PHILOSOPHY ■ LITERATURE

ARION'S LYRE

Archaic Lyric into Hellenistic Poetry

BENJAMIN ACOSTA-HUGHES

Arion's Lyre examines how Hellenistic poetic culture adapted, reinterpreted, and transformed Archaic Greek lyric through a complex process of textual, cultural, and creative reception. Looking at the ways in which the poetry of Sappho, Alcaeus, Ibycus, Anacreon, and Simonides was preserved, edited, and read by Hellenistic scholars and poets, the book shows that Archaic poets often look very different in the new social, cultural, and political setting of Hellenistic Alexandria. For example, the Alexandrian Sappho evolves from the singer of Archaic Lesbos but has distinct associations and contexts, from Ptolemaic politics and Macedonian queens to the new phenomenon of the poetry book and an Alexandrian scholarship intent on preservation and codification.

A study of Hellenistic poetic culture and an interpretation of some of the Archaic poets it so lovingly preserved, *Arion's Lyre* is also an examination of how one poetic culture reads another—and how modern readings of ancient poetry are filtered and shaped by earlier readings.

Benjamin Acosta-Hughes is professor of Greek and Latin at Ohio State University. He is the author of *Polyeideia: The Iambi of Callimachus and the Archaic Iambic Tradition*.

 JANUARY

Cloth \$39.50S

978-0-691-09525-7

272 pages. 6 x 9.

CLASSICS

ERATOSTHENES'
GEOGRAPHY
 FRAGMENTS COLLECTED AND
 TRANSLATED, WITH COMMENTARY
 AND ADDITIONAL MATERIAL,
 BY DUANE W. ROLLER

This is the first modern edition and first English translation of one of the earliest and most important works in the history of geography, the third-century *Geographika* of Eratosthenes. In this work, which for the first time described the geography of the entire inhabited world as it was then known, Eratosthenes of Kyrene (ca. 285–205 BC) invented the discipline of geography as we understand it. A polymath who served as librarian at Alexandria and tutor to the future King Ptolemy IV, Eratosthenes created the terminology of geography, probably including the word *geographia* itself. Building on his previous work, in which he determined the size and shape of the earth, Eratosthenes in the *Geographika* created a grid of parallels and meridians that linked together every place in the world: for the first time one could figure out the relationship and distance between remote localities, such as northwest Africa and the Caspian Sea. The *Geographika* also identified some four hundred places, more than ever before, from Thoule (probably Iceland) to Taprobane (Sri Lanka), and from well down the coast of Africa to Central Asia.

This is the first collation of the more than 150 fragments of the *Geographika* in more than a century. Each fragment is accompanied by an English translation, a summary, and commentary. Duane W. Roller provides a rich background, including a history of the text and its reception, a biography of Eratosthenes, and a comprehensive account of ancient Greek geographical thought and of Eratosthenes' pioneering contribution to it. This edition also includes maps that show all of the known places named in the *Geographika*.

Duane W. Roller is professor emeritus of Greek and Latin at Ohio State University.

 MARCH

Cloth \$49.50S

978-0-691-14267-8

320 pages. 3 line illus. 7 maps. 7 x 10.

CLASSICS ■ ANCIENT HISTORY ■
GEOGRAPHY

RECONSTRUCTING THE ROMAN REPUBLIC

An Ancient Political Culture and Modern Research

KARL-J. HÖLKESKAMP

Translated by Henry Heitmann-Gordon
Revised, updated, and augmented by the author

In recent decades, scholars have argued that the Roman Republic's political culture was essentially democratic in nature, stressing the central role of the "sovereign" people and their assemblies. Karl-J. Hölkeskamp challenges this view in *Reconstructing the Roman Republic*, warning that this scholarly trend threatens to become the new orthodoxy, and defending the position that the republic was in fact a uniquely Roman, dominantly oligarchic and aristocratic political form.

Hölkeskamp offers a comprehensive, in-depth survey of the modern debate surrounding the Roman Republic. He looks at the ongoing controversy first triggered in the 1980s when the "oligarchic orthodoxy" was called into question by the idea that the republic's political culture was a form of Greek-style democracy, and he considers the important theoretical and methodological advances of the 1960s and 1970s that prepared the ground for this debate. Hölkeskamp renews and refines the "elitist" view, showing how the republic was a unique kind of premodern city-state political culture shaped by a specific variant of a political class. He covers a host of fascinating topics, including the Roman value system; the senatorial aristocracy; competition in war and politics within this aristocracy; and the symbolic language of public rituals and ceremonies, monuments, architecture, and urban topography.

Certain to inspire continued debate, *Reconstructing the Roman Republic* offers fresh approaches to the study of the republic while attesting to the field's enduring vitality.

Karl-J. Hölkeskamp is professor of ancient history at the University of Cologne. He has published extensively on civic society, politics, and law in ancient Greece and the Roman Republic.

MAY

Cloth \$35.00S

978-0-691-14038-4

206 pages. 4 halftones. 2 line illus. 6 x 9.

CLASSICS ■ ANCIENT HISTORY

POSTMODERN BELIEF

American Literature and Religion since 1960

AMY HUNGERFORD

How can intense religious beliefs coexist with pluralism in America today? Examining the role of the religious imagination in contemporary religious practice and in some of the best-known works of American literature from the past fifty years, *Postmodern Belief* shows how belief for its own sake—a belief absent of doctrine—has become an answer to pluralism in a secular age. Amy Hungerford reveals how imaginative literature and religious practices together allow novelists, poets, and critics to express the formal elements of language in transcendent terms, conferring upon words a religious value independent of meaning.

Hungerford explores the work of major American writers, including Allen Ginsberg, Don DeLillo, Cormac McCarthy, Toni Morrison, and Marilynne Robinson, and links their unique visions to the religious worlds they touch. She illustrates how Ginsberg's chant-infused 1960s poetry echoes the tongue-speaking of Charismatic Christians, how DeLillo reimagines the novel and the Latin Mass, why McCarthy's prose imitates the Bible, and why Morrison's fiction needs the supernatural. Uncovering how literature and religion conceive of a world where religious belief can escape confrontations with other worldviews, Hungerford corrects recent efforts to discard the importance of belief in understanding religious life, and argues that belief in belief itself can transform secular reading and writing into a religious act.

Honoring the ways in which people talk about and practice religion, *Postmodern Belief* highlights the claims of the religious imagination in twentieth-century American culture.

Amy Hungerford is professor of English at Yale University. She is the author of *The Holocaust of Texts: Genocide, Literature, and Personification*.

20/21

Walter Benn Michaels, Series Editor

AUGUST

Paper \$27.95S

978-0-691-14575-4

Cloth \$65.00S

978-0-691-13508-3

240 pages. 6 x 9.

LITERATURE ■ RELIGION

FRENCH PAINTINGS OF THE FIFTEENTH THROUGH THE EIGHTEENTH CENTURY

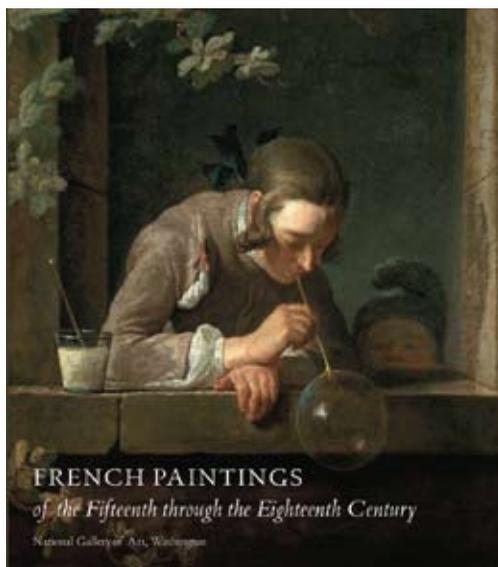
PHILIP CONISBEE

Richard Rand, contributing editor, with Joseph Baillio, Gail Feigenbaum, Frances Gage, John Oliver Hand, Benedict Leca & Pauline Maguire Robison

Georges de La Tour's haunting depiction of a repentant Mary Magdalen gazing into a mirror by candlelight; Jean Siméon Chardin's perfectly balanced image of a young boy making a house of cards; Jean Honoré Fragonard's monumental suite of landscapes showing aristocrats at play in picturesque gardens—these are among the familiar and beloved masterpieces in the National Gallery of Art, which houses one of the most important collections of French old master paintings outside France. This lavishly illustrated book, written by leading scholars and the result of years of research and technical analysis, catalogues nearly one hundred paintings, from works by François Clouet in the sixteenth century to paintings by Élisabeth Louise Vigée Le Brun in the eighteenth.

French art before the revolution is characterized by an astonishing variety of styles and themes and by a consistently high quality of production. The National Gallery collection reflects this quality and diversity, featuring excellent examples by all the leading painters: ideal landscapes by Claude Lorrain and biblical subjects by Nicolas Poussin; deeply moving religious works by La Tour, Sébastien Bourdon, and Simon Vouet; portraits of the grandest format (Philippe de Champaigne's *Omer Talon*) and the most intimate (Nicolas de Largillierre's *Elizabeth Throckmorton*); and familiar scenes of daily life by the Le Nain brothers and Chardin. The Gallery's collection is especially notable for its holdings of eighteenth-century painting, from Jean Antoine Watteau to Hubert Robert, and including marvelous suites of paintings by François Boucher and Fragonard. All these works are explored in detailed, readable entries that will appeal as much to the general art lover as to the specialist.

Philip Conisbee (1946–2008), volume editor and principal author, was senior curator of European paintings at the National Gallery of Art and a specialist in French art of the seventeenth through the nineteenth century.



ANNOUNCING THE NATIONAL GALLERY OF ART SYSTEMATIC CATALOGUES

The National Gallery of Art's own experts and scholars from around the world contribute to the thirty-volume Systematic Catalogue, which ultimately will document more than five thousand paintings, sculptures, and decorative arts in the National Gallery of Art collections. Comprehensive essays about each work are presented, along with full-color or duotone reproductions. Several volumes feature a range of comparative figures and technical illustrations to aid understanding of the latest conservation research. Where appropriate, concordances of old and new titles, attributions, and accession numbers are included; in addition, each catalogue contains extensive notes, references, a full bibliography, and an index. Seventeen volumes of the Systematic Catalogue have been published. Backlist and future titles in this series are now being distributed by Princeton University Press. For a complete list of titles in the series, visit our Web site at press.princeton.edu.

MARCH

Cloth \$99.00S

978-0-691-14535-8

552 pages. 118 color illus.

214 b&w illus. 9 1/2 x 11.

ART

Distributed for the National Gallery of Art, Washington

PRESS.PRINCETON.EDU

THE ROBERT LEHMAN COLLECTION AT THE METROPOLITAN MUSEUM OF ART, VOLUME III

Nineteenth- and Twentieth-Century Paintings

RICHARD R. BRETTELL,
PAUL HAYES TUCKER
& NATALIE H. LEE

The collection of nineteenth- and twentieth-century paintings that Robert Lehman bequeathed to The Metropolitan Museum of Art comprises 130 works ranging from canonical masterpieces by Ingres, Renoir, and Van Gogh to major works by Matisse, Vuillard, and Balbus. Also represented are lesser-known modern and contemporary artists from around the world, including India and Latin America, all of whom are granted due attention in this volume. Renowned scholars Richard Brettell, Paul Hayes Tucker, and Natalie Lee provide extensively researched discussions on each work of art, illuminated by a wealth of comparative images.

This book is part of a series of volumes that will provide the first complete scholarly catalogue of the Robert Lehman Collection at The Metropolitan Museum of Art—a collection of paintings, drawings, and decorative-arts objects that possesses in itself the breadth and quality of a major museum.

Richard R. Brettell is the Margaret McDermott Distinguished Chair of Arts and Humanities at the University of Texas at Dallas. **Paul Hayes Tucker** is the Paul Hayes Tucker Distinguished Professor of Art at the University of Massachusetts, Boston. **Natalie H. Lee** is an independent art historian.

FEBRUARY

Cloth \$125.00S

978-0-691-14536-5

496 pages. 130 color illus.

300 halftones. 8 ½ x 11.

ART

Published in association with
The Metropolitan Museum of Art

CATHOLIC PIRATES AND GREEK MERCHANTS

A Maritime History of
the Early Modern Mediterranean

MOLLY GREENE

A new international maritime order was forged in the early modern age, yet until now histories of the period have dealt almost exclusively with the Atlantic and Indian oceans. *Catholic Pirates and Greek Merchants* shifts attention to the Mediterranean, providing a major history of an important but neglected sphere of the early modern maritime world, and upending the conventional view of the Mediterranean as a religious frontier where Christians and Muslims met to do battle.

Molly Greene investigates the conflicts between the Catholic pirates of Malta—the Knights of St. John—and their victims, the Greek merchants who traded in Mediterranean waters, and uses these conflicts as a window into an international maritime order that was much more ambiguous than has been previously thought. The Greeks, as Christian subjects to the Muslim Ottomans, were the very embodiment of this ambiguity. Much attention has been given to Muslim pirates such as the Barbary corsairs, with the focus on Muslim-on-Christian violence. Greene delves into the archives of Malta's pirate court—which theoretically offered redress to these Christian victims—to paint a considerably more complex picture and to show that pirates, far from being outside the law, were vital actors in the continuous negotiations of legality and illegality in the Mediterranean Sea.

Catholic Pirates and Greek Merchants brings the Mediterranean and Catholic piracy into the broader context of early modern history, and sheds new light on commerce and the struggle for power in this volatile age.

Molly Greene is professor of history and Hellenic studies at Princeton University. She is the author of *A Shared World: Christians and Muslims in the Early Modern Mediterranean* (Princeton).

PRINCETON MODERN GREEK STUDIES

SEPTEMBER

Cloth \$35.00S

978-0-691-14197-8

304 pages. 20 halftones. 6 x 9.

HISTORY ■ EUROPEAN HISTORY

UTOPIA/DYSTOPIA

Conditions of Historical Possibility

EDITED BY MICHAEL D. GORDIN,
HELEN TILLEY & GYAN PRAKASH

The concepts of utopia and dystopia have received much historical attention. Utopias have traditionally signified the ideal future: large-scale social, political, ethical, and religious spaces that have yet to be realized. *Utopia/Dystopia* offers a fresh approach to these ideas. Rather than locate utopias in grandiose programs of future totality, the book treats these concepts as historically grounded categories and examines how individuals and groups throughout time have interpreted utopian visions in their daily present, with an eye toward the future. From colonial and postcolonial Africa to pre-Marxist and Stalinist Eastern Europe, from the social life of fossil fuels to dreams of nuclear power, and from everyday politics in contemporary India to imagined architectures of postwar Britain, this interdisciplinary collection provides new understandings of the utopian/dystopian experience.

The essays look at such issues as imaginary utopian perspectives leading to the 1856-57 Xhosa Cattle Killing in South Africa, the functioning racist utopia behind the Rhodesian independence movement, the utopia of the peaceful atom and its global dissemination in the mid-1950s, the possibilities for an everyday utopia in modern cities, and how the Stalinist Purges of the 1930s served as an extension of the utopian/dystopian relationship.

The contributors are Dipesh Chakrabarty, Igal Halfin, Fredric Jameson, John Krige, Timothy Mitchell, Aditya Nigam, David Pinder, Marci Shore, Jennifer Wenzel, and Luise White.

Michael D. Gordin is associate professor of history at Princeton University. **Helen Tilley** teaches history at Birkbeck College, University of London. **Gyan Prakash** is the Dayton-Stockton Professor of History at Princeton University.

SEPTEMBER

Paper \$24.955
978-0-691-14698-0
Cloth \$65.005
978-0-691-14697-3
264 pages. 6 x 9.

HISTORY ■ URBAN STUDIES

FRANCE'S NEW DEAL

From the Thirties to the Liberation

PHILIP G. NORD

France's New Deal is an in-depth and important look at the remaking of the French state after World War II, a time when the nation was endowed with brand-new institutions for managing its economy and culture. Yet, as Philip Nord reveals, the significant process of state rebuilding did not begin at the Liberation. Rather, it got started earlier, in the waning years of the Third Republic and under the Vichy regime. Tracking the nation's evolution from the 1930s through the postwar years, Nord describes how a variety of political actors—socialists, Christian democrats, technocrats, and Gaullists—had a hand in the construction of modern France.

Nord examines the French development of economic planning and a cradle-to-grave social security system; and he explores the nationalization of radio, the creation of a national cinema, and the funding of regional theaters. Nord shows that many of the policymakers of the Liberation era had also served under the Vichy regime, and that a number of postwar institutions and policies were actually holdovers from the Vichy era—minus the authoritarianism and racism of those years. From this perspective, the French state after the war was neither entirely new nor purely social-democratic in inspiration. The state's complex political pedigree appealed to a range of constituencies and made possible the building of a wide base of support that remained in place for decades to come.

A nuanced perspective on the French state's postwar origins, *France's New Deal* chronicles how one modern nation came into being.

Philip G. Nord is the Rosengarten Professor of Modern and Contemporary History at Princeton University. His books include *Paris Shopkeepers and the Politics of Resentment* (Princeton), *The Republican Moment: Struggles for Democracy in Nineteenth-Century France*, and *Impressionists and Politics: Art and Democracy in the Nineteenth Century*.

JUNE

Cloth \$39.505
978-0-691-14297-5
488 pages. 6 x 9.

EUROPEAN HISTORY

ALABAMA IN AFRICA

Booker T. Washington, the German Empire,
and the Globalization of the New South

ANDREW ZIMMERMAN

In 1901, the Tuskegee Institute, founded by Booker T. Washington, sent an expedition to the German colony of Togo in West Africa, with the purpose of transforming the region into a cotton economy similar to that of the post-Reconstruction American South. *Alabama in Africa* explores the politics of labor, sexuality, and race behind this endeavor, and the economic, political, and intellectual links connecting Germany, Africa, and the southern United States. The cross-fertilization of histories and practices led to the emergence of a global South, reproduced social inequities on both sides of the Atlantic, and pushed the American South and the German Empire to the forefront of modern colonialism.

Zimmerman shows how the people of Togo, rather than serving as a blank slate for American and German ideologies, helped shape their region's place in the global South. He looks at the forms of resistance pioneered by African American freedpeople, Polish migrant laborers, African cotton cultivators, and other groups exploited by, but never passive victims of, the growing colonial political economy. Zimmerman reconstructs the social science of the global South formulated by such thinkers as Max Weber and W.E.B. Du Bois, and reveals how their theories continue to define contemporary race, class, and culture.

Tracking the intertwined histories of Europe, Africa, and the Americas at the turn of the century, *Alabama in Africa* shows how the politics and economics of the segregated American South significantly reshaped other areas of the world.

Andrew Zimmerman is associate professor of history at George Washington University. He is the author of *Anthropology and Antihumanism in Imperial Germany*.

AMERICA IN THE WORLD
Sven Beckert and Jeremi Suri, Series Editors

MAY

Cloth \$35.00S

978-0-691-12362-2

416 pages. 31 halftones. 3 maps. 6 x 9.

WORLD HISTORY

CHINA AND THE VOCATION OF HISTORY IN THE TWENTIETH CENTURY

A Personal Memoir

FREDERICK W. MOTE

Frederick Mote, one of the twentieth century's most prominent Sinologists, has written a historian's memoir that uses observation and personal experiences to understand the intellectual and social transformation of China. Mote's thought-provoking narrative distills his reflections on modern China and details change in Chinese historical studies in the twentieth century. Mote assesses the work of historians prior to 1950 and the domination of China by the Communist Chinese, hints at the direction of Chinese historical studies in the post-1950s era, and explores the continuous change in the ways Chinese history has been understood among the Chinese themselves and within the field.

Language training in the Army Specialized Training Program and subsequent wartime service with the Office of Strategic Services serendipitously drew Mote into the study of China, the immense discipline to which he devoted his life. Previously unpublished material in the text, appendices, and addenda document such diverse encounters as the destruction of a Catholic mission by the Communists, Sino-Japanese relations in China in the aftermath of World War II, the growth of East Asian Studies at Princeton University, and a 1974 delegation visit to China. Evaluating Chinese ideas and attitudes toward revolution, modernization, and war, Mote measures the weight and meaning of Chinese historical study.

Frederick W. Mote (1922–2005), whose research interests were China's Yuan and Ming dynasties, taught Chinese history and language at Princeton University from 1956 to 1987 and was instrumental in developing East Asian Studies there. His works include the *Intellectual Foundations of China* and *Imperial China, 900–1800*.

APRIL

Cloth \$27.95S

978-0-691-14463-4

304 pages. 15 halftones. 6 x 9.

ASIAN STUDIES ■ HISTORY

Distributed for the East Asian Library Journal,
Princeton University

HEAVENLY MERCHANDIZE

How Religion Shaped Commerce
in Puritan America

MARK VALERI

Heavenly Merchandize offers a critical reexamination of religion's role in the creation of a market economy in early America. Focusing on the economic culture of New England, it views commerce through the eyes of four generations of Boston merchants, drawing upon their personal letters, diaries, business records, and sermon notes to reveal how merchants built a modern form of exchange out of profound transitions in the puritan understanding of discipline, providence, and the meaning of New England.

Mark Valeri traces the careers of men like Robert Keayne, a London immigrant punished by his church for aggressive business practices; John Hull, a silversmith-turned-trader who helped to establish commercial networks in the West Indies; and Hugh Hall, one of New England's first slave traders. He explores how Boston ministers reconstituted their moral languages over the course of a century, from a scriptural discourse against many market practices to a providential worldview that justified England's commercial hegemony and legitimated the market as a divine construct. Valeri moves beyond simplistic readings that reduce commercial activity to secular mind-sets, and refutes the popular notion of an inherent affinity between puritanism and capitalism. He shows how changing ideas about what it meant to be pious and puritan informed the business practices of Boston's merchants, who filled their private notebooks with meditations on scripture and the natural order; founded and led churches; and inscribed spiritual reflections in their letters and diaries.

Mark Valeri is the Ernest Trice Thompson Professor of Church History at the Union Theological Seminary and Presbyterian School of Christian Education in Virginia.

JUNE

Cloth \$35.00S

978-0-691-14359-0

360 pages. 16 halftones. 6 x 9.

AMERICAN HISTORY ■ RELIGION ■
INTELLECTUAL HISTORY

FAITH IN THE FIGHT

Religion and the American Soldier in the Great War

JONATHAN H. EBEL

Faith in the Fight tells a story of religion, soldiering, suffering, and death in the Great War. Recovering the thoughts and experiences of American troops, nurses, and aid workers through their letters, diaries, and memoirs, Jonathan Ebel describes how religion—primarily Christianity—encouraged these young men and women to fight and die, sustained them through war's chaos, and shaped their responses to the war's aftermath. The book reveals the surprising frequency with which Americans who fought viewed the war as a religious challenge that could lead to individual and national redemption. Believing in a "Christianity of the sword," these Americans responded to the war by re-asserting their religious faith and proclaiming America God-chosen and righteous in its mission. And while the war sometimes challenged these beliefs, it did not fundamentally alter them.

Revising the conventional view that the war was universally disillusioning, *Faith in the Fight* argues that the war in fact strengthened the religious beliefs of the Americans who fought, and that it helped spark a religiously charged revival of many prewar orthodoxies during a postwar period marked by race riots, labor wars, communist witch hunts, and gender struggles. For many Americans, Ebel argues, the postwar period was actually one of "reillusionment."

Demonstrating the deep connections between Christianity and Americans' experience of the First World War, *Faith in the Fight* encourages us to examine the religious dimensions of America's wars, past and present, and to work toward a deeper understanding of religion and violence in American history.

Jonathan H. Ebel is assistant professor of religion at the University of Illinois, Urbana-Champaign.

MAY

Cloth \$35.00S

978-0-691-13992-0

272 pages. 8 line illus. 6 x 9.

AMERICAN HISTORY ■ RELIGION

A KALEIDOSCOPE OF CHINA

An Advanced Reader

CHIH-P'ING CHOU, JINGYU WANG,
JOANNE CHIANG & HUA-HUI WEI

A Kaleidoscope of China is an advanced Chinese-language textbook that gives students a greater command of Chinese while deepening their understanding of the social and cultural issues facing China today. Geared to the unique needs of students with two or more years of instruction in modern Chinese, this book features a stimulating selection of articles and essays from major newspapers and periodicals in China, offering a revealing look at contemporary Chinese society. Topics include buying a home versus having a child; consumer exports to America; depression; online dating; cell phones; empty-nest syndrome; fast food; the Virginia Tech massacre; medicine; the 2008 Sichuan earthquake; and global warming. Every selection is accompanied by a vocabulary list, exercises, and grammar notes.

No other Chinese-language textbook so effectively helps advanced students expand their language skills while immersing them in what is truly a kaleidoscope of today's China.

- ◆ Teaches advanced Chinese while providing a window into contemporary China
- ◆ Features selections from actual Chinese newspapers and periodicals
- ◆ Includes vocabulary lists, exercises, and grammar notes
- ◆ Ideal for students with two or more years of instruction in modern Chinese

Chih-p'ing Chou is professor of East Asian studies at Princeton University and director of the university's Chinese language and Princeton in Beijing programs. **Joanne Chiang** is senior lecturer in Chinese at Princeton. **Jingyu Wang** and **Hua-Hui Wei** are former lecturers in Chinese at Princeton.

THE PRINCETON LANGUAGE PROGRAM: MODERN CHINESE

APRIL

Paper \$49.50S

978-0-691-14691-1

520 pages. 6 x 9.

CHINESE LANGUAGE

THE PATHOLOGIES OF INDIVIDUAL FREEDOM

Hegel's Social Theory

AXEL HONNETH

Translated by Ladislav Löb

This is a penetrating reinterpretation and defense of Hegel's social theory as an alternative to reigning liberal notions of social justice. The eminent German philosopher Axel Honneth rereads Hegel's *Philosophy of Right* to show how it diagnoses the pathologies of the overcommitment to individual freedom that Honneth says underlies the ideas of Rawls and Habermas alike. Honneth argues that Hegel's theory contains an account of the psychological damage caused by placing too much emphasis on personal and moral freedom. Although these freedoms are crucial to the achievement of justice, they are insufficient and in themselves leave people vulnerable to loneliness, emptiness, and depression. Hegel argues that people must also find their freedom or "self-realization" through shared projects. Such projects involve the three institutions of ethical life—family, civil society, and the state—and provide the arena of a crucial third kind of freedom, what Honneth calls "communicative" freedom. A society is just only if it gives all of its members sufficient and equal opportunity to realize communicative freedom as well as personal and moral freedom.

Axel Honneth is professor of social philosophy at Goethe University and director of the Institute for Social Research in Frankfurt am Main. His many books include *Pathologies of Reason*, *Reification*, *The Struggle for Recognition*, and *The Critique of Power*.

PRINCETON MONOGRAPHS IN PHILOSOPHY

Harry G. Frankfurt, Series Editor

APRIL

Cloth \$29.95S

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96 pages. 5 1/2 x 8 1/2.

PHILOSOPHY ■ POLITICAL THEORY

MACHIAVELLI'S GOD

MAURIZIO VIROLI

Translated by Antony Shugaar

To many readers of *The Prince*, Machiavelli appears to be deeply un-Christian or even anti-Christian, a cynic who thinks rulers should use religion only to keep their subjects in check. But in *Machiavelli's God*, Maurizio Viroli, one of the world's leading authorities on Machiavelli, argues that Machiavelli, far from opposing Christianity, thought it was crucial to republican social and political renewal—but that first it needed to be renewed itself. And without understanding this, Viroli contends, it is impossible to comprehend Machiavelli's thought.

Viroli places Machiavelli in the context of Florence's republican Christianity, which was founded on the idea that the true Christian is a citizen who serves the common good. In this tradition, God participates in human affairs, supports and rewards those who govern justly, and desires men to make the earthly city similar to the divine one. Building on this tradition, Machiavelli advocated a religion of virtue, and he believed that, without this faith, free republics could not be established, defend themselves against corruption, or survive. Viroli makes a powerful case that Machiavelli, far from being a pagan or atheist, was a prophet of a true religion of liberty, a way of moral and political living that would rediscover and pursue charity and justice.

Maurizio Viroli is professor of politics at Princeton University. His many books include *Machiavelli*, *Niccolò's Smile: A Biography of Machiavelli* (Farrar, Straus and Giroux), and *How to Read Machiavelli* (Granta).

HOW MACHIAVELLI'S CHRISTIANITY
SHAPED HIS POLITICAL THOUGHT

Praise for Maurizio Viroli's *Niccolò's Smile: A Biography of Machiavelli*:

"Elegant and accessible."

—Mark Lilla, *Washington Post Book World*

"A welcome antidote to the clichéd image of self-interested knavery for which [Machiavelli] has become known. . . . Viroli succeeds . . . in offering a fascinating portrait."

—Alexander Stille, *New York Times Book Review*

SEPTEMBER

Cloth \$45.00S

978-0-691-12414-8

336 pages. 6 x 9.

POLITICAL THEORY ■ HISTORY

PRESS.PRINCETON.EDU

WHAT TODAY'S POLITICAL THINKERS
CAN LEARN FROM THE RADICAL DEMOCRATIC
MOVEMENTS OF 20TH-CENTURY AMERICA

DEMANDING DEMOCRACY

American Radicals in Search of a New Politics

MARC STEARS

MARC STEARS DEMANDING DEMOCRACY



AMERICAN RADICALS IN SEARCH OF A NEW POLITICS

This is a major work of history and political theory that traces radical democratic thought in America across the twentieth century, seeking to recover ideas that could reenergize democratic activism today. The question of how citizens should behave as they struggle to create a more democratic society has haunted the United States throughout its history. Should citizens restrict themselves to patient persuasion or take to the streets and seek to impose change? Marc Stears argues that anyone who continues to wrestle with these questions could learn from the radical democratic tradition that was forged in the twentieth century by political activists, including progressives, trade unionists, civil rights campaigners, and members of the student New Left.

These activists and their movements insisted that American campaigners for democratic change should be free to strike out in whatever ways they thought necessary, so long as their actions enhanced the political virtues of citizens and contributed to the eventual triumph of the democratic cause. Reevaluating the moral and strategic arguments, and the triumphs and excesses, of this radical democratic tradition, Stears contends that it still offers a compelling account of citizen behavior—one that is fairer, more inclusive, and more truly democratic than those advanced by political theorists today.

Marc Stears is university lecturer in political theory at the University of Oxford and fellow in politics at University College, Oxford. He is the author of *Progressives, Pluralists and the Problems of the State* and the coeditor of *Political Theory: Methods and Approaches*.

“This is an important book at the intersection of political history and political theory, written at a time when new perspectives in American self-understanding are very much needed, especially on the political left.”

—Eldon J. Eisenach, professor emeritus,
University of Tulsa

MARCH

Cloth \$29.95S

978-0-691-13340-9

256 pages. 6 x 9.

POLITICAL THEORY ■ HISTORY

PRESS.PRINCETON.EDU

A POLITICAL PHILOSOPHY IN PUBLIC LIFE

Civic Republicanism in Zapatero's Spain

JOSÉ LUIS MARTÍ & PHILIP PETTIT

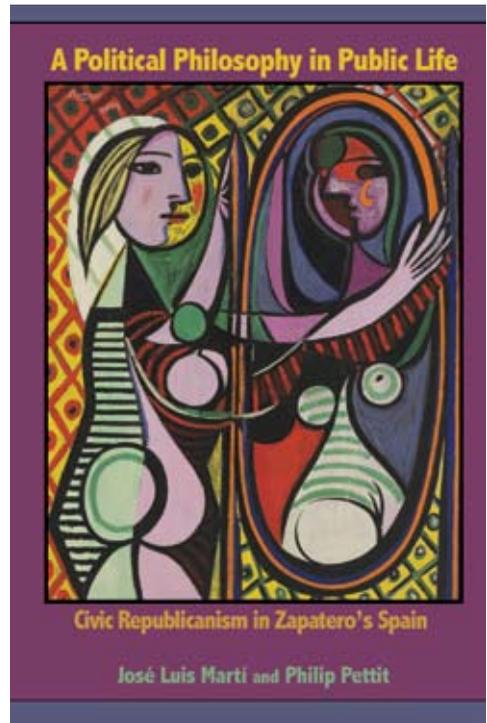
This book examines an unlikely development in modern political philosophy: the adoption by a major national government of the ideas of a living political theorist. When José Luis Rodríguez Zapatero became Spain's opposition leader in 2000, he pledged that if his socialist party won power he would govern Spain in accordance with the principles laid out in Philip Pettit's 1997 book *Republicanism*, which presented, as an alternative to liberalism and communitarianism, a theory of freedom and government based on the idea of nondomination. When Zapatero was elected President in 2004, he invited Pettit to Spain to give a major speech about his ideas. Zapatero also invited Pettit to monitor Spanish politics and deliver a kind of report card before the next election. Pettit did so, returning to Spain in 2007 to make a presentation in which he gave Zapatero's government a qualified thumbs-up for promoting republican ideals.

In this book, Pettit and José Luis Martí provide the historical background to these unusual events, explain the principles of civic republicanism in accessible terms, present Pettit's report and his response to some of its critics, and include an extensive interview with Zapatero himself. In addition, the authors discuss what is required of a political philosophy if it is to play the sort of public role that civic republicanism has been playing in Spain.

An important account of a rare and remarkable encounter between contemporary political philosophy and real-world politics, this is also a significant work of political philosophy in its own right.

José Luis Martí is associate professor of law at Pompeu Fabra University in Barcelona. **Philip Pettit** is the Laurance S. Rockefeller University Professor of Politics and Human Values at Princeton University. His books include *Republicanism*, *A Theory of Freedom*, and *Made with Words* (Princeton).

THE STORY OF A PRINCETON PROFESSOR'S ROLE
AS THE UNOFFICIAL PHILOSOPHICAL ADVISER
TO THE SPANISH GOVERNMENT



“It is rare for the president of a major country to endorse the political philosophy of a living theorist, so Philip Pettit's engagement with Spain's José Luis Rodríguez Zapatero is something of a historical event. Not since the glory days of Russell and Dewey have we seen public political philosophy conducted on this level. This book succeeds wonderfully, both as a document of an important act of public philosophy and as a philosophical work that furthers the development of republican political theory.”

—Robert B. Talisse, Vanderbilt University

AUGUST

Cloth \$29.95

978-0-691-14406-1

232 pages. 1 line illus. 6 x 9.

POLITICAL THEORY ■ PHILOSOPHY

PRESS.PRINCETON.EDU

UNTYING THE KNOT

Marriage, the State, and the Case for Their Divorce

TAMARA METZ

Marriage is at the center of one of today's fiercest political debates. Activists argue about how to define it, judges and legislators decide who should benefit from it, and scholars consider how the state should protect those who are denied it. Few, however, ask whether the state should have anything to do with marriage in the first place. In *Untying the Knot*, Tamara Metz addresses this crucial question, making a powerful argument that marriage, like religion, should be separated from the state. Rather than defining or conferring marriage, or relying on it to achieve legitimate public welfare goals, the state should create a narrow legal status that supports all intimate caregiving unions. Marriage itself should be bestowed by those best suited to give it the necessary ethical authority—religious groups and other kinds of communities. Divorcing the state from marriage is dictated by nothing less than basic commitments to freedom and equality.

Tracing confusions about marriage to tensions at the heart of liberalism, *Untying the Knot* clarifies today's debates about marriage by identifying and explaining assumptions hidden in widely held positions and common practices. It shows that, as long as marriage and the state are linked, marriage will be a threat to liberalism and the state will be a threat to marriage. An important and timely rethinking of the relationship between marriage and the state, *Untying the Knot* will interest political theorists, legal scholars, policymakers, sociologists, and anyone else who cares about the fate of marriage or liberalism.

Tamara Metz is assistant professor of political science and humanities at Reed College.

FEBRUARY

Cloth \$27.955

978-0-691-12667-8

214 pages. 5 1/2 x 8 1/2.

POLITICAL THEORY ■
CURRENT AFFAIRS

PRUDES, PERVERTS, AND TYRANTS

Plato's *Gorgias* and the Politics of Shame

CHRISTINA H. TARNOPOLSKY

In recent years, most political theorists have agreed that shame shouldn't play any role in democratic politics because it threatens the mutual respect necessary for participation and deliberation. But Christina Tarnopolsky argues that not every kind of shame hurts democracy. In fact, she makes a powerful case that there is a form of shame that is essential to any critical, moderate, and self-reflexive democratic practice.

Through a careful study of Plato's *Gorgias*, Tarnopolsky shows that contemporary conceptions of shame are far too narrow. For Plato, three kinds of shame and shaming practices were possible in democracies, and only one of these is similar to the form condemned by contemporary thinkers. Following Plato, Tarnopolsky develops an account of a different kind of shame, which she calls "respectful shame." This practice involves the painful but beneficial shaming of one's fellow citizens as part of the ongoing project of collective deliberation. And, as Tarnopolsky argues, this type of shame is just as important to contemporary democracy as it was to its ancient form.

Tarnopolsky also challenges the view that the *Gorgias* inaugurates the problematic oppositions between emotions and reason, and rhetoric and philosophy. Instead, she shows that, for Plato, rationality and emotions belong together, and she argues that political science and democratic theory are impoverished when they relegate the study of emotions such as shame to other disciplines.

Christina H. Tarnopolsky is assistant professor of political science at McGill University.

JUNE

Cloth \$35.005

978-0-691-12856-6

240 pages. 5 tables. 6 x 9.

POLITICAL THEORY ■ CLASSICS

ALIBIS OF EMPIRE

Henry Maine and the Ends of Liberal Imperialism

KARUNA MANTENA

Alibis of Empire presents a novel account of the origins, substance, and afterlife of late imperial ideology. Karuna Mantena challenges the idea that Victorian empire was primarily legitimated by liberal notions of progress and civilization. In fact, as the British Empire gained its farthest reach, its ideology was being dramatically transformed by a self-conscious rejection of the liberal model. The collapse of liberal imperialism enabled a new culturalism that stressed the dangers and difficulties of trying to “civilize” native peoples. And, hand in hand with this shift in thinking was a shift in practice toward models of indirect rule. As Mantena shows, the work of Victorian legal scholar Henry Maine was at the center of these momentous changes. *Alibis of Empire* examines how Maine’s sociotheoretic model of “traditional” society laid the groundwork for the culturalist logic of late empire. In charting the movement from liberal idealism, through culturalist explanation, to retroactive alibi within nineteenth-century British imperial ideology, *Alibis of Empire* unearths a striking and pervasive dynamic of modern empire.

Karuna Mantena is assistant professor of political science at Yale University.

MARCH

Cloth \$39.50S

978-0-691-12816-0

296 pages. 6 x 9.

POLITICAL THEORY ■
INTELLECTUAL HISTORY ■ HISTORY

Not for sale in South Asia

DIASPORA, DEVELOPMENT, AND DEMOCRACY

The Domestic Impact of
International Migration from India

DEVESH KAPUR

What happens to a country when its skilled workers emigrate? The first book to examine the complex economic, social, and political effects of emigration on India, *Diaspora, Development, and Democracy* provides a conceptual framework for understanding the repercussions of international migration on migrants’ home countries.

Devesh Kapur finds that migration has influenced India far beyond a simplistic “brain drain”—migration’s impact greatly depends on who leaves and why. The book offers new methods and empirical evidence for measuring these traits and shows how data about these characteristics link to specific outcomes. For instance, the positive selection of Indian migrants through education has strengthened India’s democracy by creating a political space for previously excluded social groups. Because older Indian elites have an exit option, they are less likely to resist the loss of political power at home. Education and training abroad has played an important role in facilitating the flow of expertise to India, integrating the country into the world economy, positively shaping how India is perceived, and changing traditional conceptions of citizenship. The book highlights a paradox—while international migration is a cause and consequence of globalization, its effects on countries of origin depend largely on factors internal to those countries.

A rich portrait of the Indian migrant community, *Diaspora, Development, and Democracy* explores the complex political and economic consequences of migration for the countries migrants leave behind.

Devesh Kapur is associate professor of political science and holds the Madan Lal Sobti Professorship for the Study of Contemporary India at the University of Pennsylvania.

SEPTEMBER

Cloth \$35.00S

978-0-691-12538-1

344 pages. 27 line illus. 76 tables. 6 x 9.

POLITICAL SCIENCE ■ ECONOMICS ■
ASIAN STUDIES

JAPAN TRANSFORMED

Political Change and Economic Restructuring

FRANCES MCCALL ROSENBLUTH
& MICHAEL F. THIES

With little domestic fanfare and even less attention internationally, Japan has been reinventing itself since the 1990s, dramatically changing its political economy, from one managed by regulations to one with a neoliberal orientation. Rebuilding from the economic misfortunes of its recent past, the country retains a formidable economy and its political system is healthier than at any time in its history. *Japan Transformed* explores the historical, political, and economic forces that led to the country's recent evolution, and looks at the consequences for Japan's citizens and global neighbors.

The book examines Japanese history, illustrating the country's multiple transformations over the centuries, and then focuses on the critical and inexorable advance of economic globalization. It describes how global economic integration and urbanization destabilized Japan's postwar policy coalition, undercut the ruling Liberal Democratic Party's ability to buy votes, and paved the way for new electoral rules that emphasized competing visions of the public good. In contrast to the previous system that pitted candidates from the same party against each other, the new rules tether policymaking to the vast swath of voters in the middle of the political spectrum. Regardless of ruling party, Japan's politics, economics, and foreign policy are on a neoliberal path.

Japan Transformed combines broad context and comparative analysis to provide an accurate understanding of Japan's past, present, and future.

Frances McCall Rosenbluth is the Damon Wells Professor of International Politics at Yale University.

Michael F. Thies is associate professor of political science at the University of California, Los Angeles.

JULY

Paper \$27.95

978-0-691-13592-2

Cloth \$65.00

978-0-691-13591-5

280 pages. 8 line illus. 7 tables. 6 x 9.

POLITICAL SCIENCE ■ ASIAN STUDIES

THE DIFFUSION OF MILITARY POWER

Causes and Consequences for International Politics

MICHAEL C. HOROWITZ

The Diffusion of Military Power examines how the financial and organizational challenges of adopting new methods of fighting wars can influence the international balance of power. Michael Horowitz argues that a state or actor wishing to adopt a military innovation must possess both the financial resources to buy or build the technology and the internal organizational capacity to accommodate any necessary changes in recruiting, training, or operations. How countries react to new innovations—and to other actors that do or don't adopt them—has profound implications for the global order and the likelihood of war.

Horowitz looks at some of the most important military innovations throughout history, including the advent of the all-big-gun steel battleship, the development of aircraft carriers and nuclear weapons, and the use of suicide terror by nonstate actors. He shows how expensive innovations can favor wealthier, more powerful countries, but also how those same states often stumble when facing organizationally complicated innovations. Innovations requiring major upheavals in doctrine and organization can disadvantage the wealthiest states due to their bureaucratic inflexibility and weight the balance of power toward smaller and more nimble actors, making conflict more likely.

This book provides vital insights into military innovations and their impact on U.S. foreign policy, warfare, and the distribution of power in the international system.

Michael C. Horowitz is assistant professor of political science at the University of Pennsylvania.

SEPTEMBER

Paper \$26.95

978-0-691-14396-5

Cloth \$75.00

978-0-691-14395-8

264 pages. 10 line illus. 21 tables. 6 x 9.

POLITICAL SCIENCE ■
INTERNATIONAL RELATIONS

REPUTATION AND POWER

Organizational Image and
Pharmaceutical Regulation at the FDA

DANIEL CARPENTER

The U.S. Food and Drug Administration is the most powerful regulatory agency in the world. How did the FDA become so influential? And how exactly does it wield its extraordinary power? *Reputation and Power* traces the history of FDA regulation of pharmaceuticals, revealing how the agency's organizational reputation has been the primary source of its power, yet also one of its ultimate constraints.

Daniel Carpenter describes how the FDA cultivated a reputation for competence and vigilance throughout the last century, and how this organizational image has enabled the agency to regulate an industry as powerful as American pharmaceuticals while resisting efforts to curb its own authority. Carpenter explains how the FDA's reputation and power have played out among committees in Congress, and with drug companies, advocacy groups, the media, research hospitals and universities, and governments in Europe and India. He shows how FDA regulatory power has influenced the way that business, medicine, and science are conducted in the United States and worldwide. Along the way, Carpenter offers new insights into the therapeutic revolution of the 1940s and 1950s; the 1980s AIDS crisis; the advent of oral contraceptives and cancer chemotherapy; the rise of antiregulatory conservatism; and the FDA's waning influence in drug regulation today.

Reputation and Power demonstrates how reputation shapes the power and behavior of government agencies, and sheds new light on how that power is used and contested.

Daniel Carpenter is the Allie S. Freed Professor of Government at Harvard University. He is the author of *The Forging of Bureaucratic Autonomy: Reputations, Networks, and Policy Innovation in Executive Agencies, 1862–1928* (Princeton).

PRINCETON STUDIES IN AMERICAN POLITICS:
HISTORICAL, INTERNATIONAL, AND COMPARATIVE PERSPECTIVES
Ira Katznelson, Martin Shefter, and Theda Skocpol, Series Editors

HOW THE FDA BECAME THE WORLD'S MOST
POWERFUL REGULATORY AGENCY

“Reputation and Power is by far the most thorough and penetrating study of the most powerful and important regulatory agency in the world—the U.S. Food and Drug Administration—and one of the best studies of any American regulatory agency. The book is essential reading for anyone seriously interested in American politics, public policy, administrative institutions, or health and medicine. This is an extraordinary work.”

—Paul Quirk, University of British Columbia

“Carpenter has integrated an understanding of the FDA's legal history and programmatic responsibilities with a perceptive grasp of the personalities who shaped that history. His work surpasses in depth and scope all other accounts of the FDA with which I am familiar. No one in the future will be able to write seriously about the FDA's drug approval system without taking account of Carpenter's work. His curiosity knows no limits.”

—Richard A. Merrill, professor emeritus,
University of Virginia

MAY

Paper \$29.95S

978-0-691-14180-0

Cloth \$75.00S

978-0-691-14179-4

856 pages. 13 halftones.

17 line illus. 13 tables. 6 x 9.

POLITICAL SCIENCE ■ PUBLIC POLICY

PRESS.PRINCETON.EDU

FORBIDDEN FRUIT

Counterfactuals and International Relations

RICHARD NED LEBOW

Could World War I have been averted if Franz Ferdinand and his wife hadn't been murdered by Serbian nationalists in 1914? What if Ronald Reagan had been killed by Hinckley's bullet? Would the Cold War have ended as it did? In *Forbidden Fruit*, Richard Ned Lebow develops protocols for conducting robust counterfactual thought experiments and uses them to probe the causes and contingency of transformative international developments like World War I and the end of the Cold War. He uses experiments, surveys, and a short story to explore why policymakers, historians, and international relations scholars are so resistant to the contingency and indeterminism inherent in open-ended, nonlinear systems. Most controversially, Lebow argues that the difference between counterfactual and so-called factual arguments is misleading, as both can be evidence-rich and logically persuasive. A must-read for social scientists, *Forbidden Fruit* also examines the binary between fact and fiction and the use of counterfactuals in fictional works like Philip Roth's *The Plot Against America* to understand complex causation and its implications for who we are and what we think makes the social world work.

Richard Ned Lebow is the James O. Freedman Presidential Professor of Government at Dartmouth College and the Centennial Professor of International Relations at the London School of Economics and Political Science. His many books include *A Cultural Theory of International Relations* and *We All Lost the Cold War* (Princeton).

FEBRUARY

Paper \$27.95S

978-0-691-13290-7

Cloth \$60.00S

978-0-691-13289-1

348 pages. 4 line illus. 14 tables. 6 x 9.

POLITICAL SCIENCE ■
INTERNATIONAL RELATIONS

RATIONAL THEORY OF INTERNATIONAL POLITICS

The Logic of Competition and Cooperation

CHARLES L. GLASER

Within the realist school of international relations, a prevailing view holds that the anarchic structure of the international system invariably forces the great powers to seek security at one another's expense, dooming even peaceful nations to an unrelenting struggle for power and dominance. *Rational Theory of International Politics* offers a more nuanced alternative to this view, one that provides answers to the most fundamental and pressing questions of international relations.

Why do states sometimes compete and wage war while at other times they cooperate and pursue peace? Does competition reflect pressures generated by the anarchic international system or rather states' own expansionist goals? Are the United States and China on a collision course to war, or is continued coexistence possible? Is peace in the Middle East even feasible? Charles Glaser puts forward a major new theory of international politics that identifies three kinds of variables that influence a state's strategy: the state's motives, specifically whether it is motivated by security concerns or "greed"; material variables, which determine its military capabilities; and information variables, most importantly what the state knows about its adversary's motives.

Rational Theory of International Politics demonstrates that variation in motives can be key to the choice of strategy; that the international environment sometimes favors cooperation over competition; and that information variables can be as important as material variables in determining the strategy a state should choose.

Charles L. Glaser is professor of political science and international affairs at George Washington University. He is the author of *Analyzing Strategic Nuclear Policy* (Princeton).

JUNE

Paper \$27.95S

978-0-691-14372-9

Cloth \$70.00S

978-0-691-14371-2

344 pages. 6 tables. 6 x 9.

POLITICAL SCIENCE ■
INTERNATIONAL RELATIONS

DIVERSITY IN COMPLEX ADAPTIVE SYSTEMS

SCOTT E. PAGE

This book provides an introduction to the role of diversity in complex adaptive systems. A complex system—such as an economy or a tropical ecosystem—consists of interacting adaptive entities that produce dynamic patterns and structures. Diversity plays a different role in a complex system than it does in an equilibrium system, where it often merely produces variation around the mean for performance measures. In complex adaptive systems, diversity makes fundamental contributions to system performance.

Scott Page gives a concise primer on how diversity happens, how it is maintained, and how it affects complex systems. He explains how diversity underpins system level robustness, allowing for multiple responses to external shocks and internal adaptations; how it provides the seeds for large events by creating outliers that fuel tipping points; and how it drives novelty and innovation. Page looks at the different kinds of diversity—variations within and across types, and distinct community compositions and interaction structures—and covers the evolution of diversity within complex systems and the factors that determine the amount of maintained diversity within a system.

- ◆ Provides a concise and accessible introduction
- ◆ Shows how diversity underpins robustness and fuels tipping points
- ◆ Covers all types of diversity
- ◆ The essential primer on diversity in complex adaptive systems

Scott E. Page is the Leonid Hurwicz Collegiate Professor of Complex Systems, Political Science, and Economics at the University of Michigan and an external faculty member at the Santa Fe Institute. He is the author of *The Difference: How the Power of Diversity Creates Better Groups, Firms, Schools, and Societies* (Princeton).

PRIMERS IN COMPLEX SYSTEMS

MAY

Paper \$14.95S

978-0-691-13767-4

96 pages. 10 line illus. 5 1/2 x 8 1/2.

POLITICAL SCIENCE ■ SOCIAL SCIENCE

WORKING TOGETHER

Collective Action, the Commons,
and Multiple Methods in Practice

AMY R. POTEETE, MARCO A. JANSSEN
& ELINOR OSTROM

Advances in the social sciences have emerged through a variety of research methods: field-based research, laboratory and field experiments, and agent-based models. However, which research method or approach is best suited to a particular inquiry is frequently debated and discussed. *Working Together* examines how different methods have promoted various theoretical developments related to collective action and the commons, and demonstrates the importance of cross-fertilization involving multiple-methods research across traditional boundaries. The authors look at why cross-fertilization is difficult to achieve, and they show ways to overcome these challenges through collaboration.

The authors provide numerous examples of collaborative, multiple-methods research related to collective action and the commons. They examine the pros and cons of case studies, meta-analyses, large-N field research, experiments and modeling, and empirically grounded agent-based models, and they consider how these methods contribute to research on collective action for the management of natural resources. Using their findings, the authors outline a revised theory of collective action that includes three elements: individual decision making, microsituational conditions, and features of the broader social-ecological context.

Working Together reworks the theory of collective action and offers practical solutions for researchers and students across a spectrum of disciplines.

Amy R. Poteete is assistant professor of political science at Concordia University in Montreal. **Marco A. Janssen** is assistant professor in the School of Human Evolution and Social Change at Arizona State University. **Elinor Ostrom** is the Arthur F. Bentley Professor of Political Science at Indiana University, Bloomington, and the cowinner of the 2009 Nobel Prize in Economics.

SEPTEMBER

Paper \$29.95S

978-0-691-14604-1

Cloth \$75.00S

978-0-691-14603-4

312 pages. 21 line illus. 8 tables. 6 x 9.

POLITICAL SCIENCE ■ SOCIAL SCIENCE

REDS, WHITES, AND BLUES

Social Movements, Folk Music,
and Race in America

WILLIAM G. ROY

Music, and folk music in particular, is often embraced as a form of political expression, a vehicle for bridging or reinforcing social boundaries, and a valuable tool for movements reconfiguring the social landscape. *Reds, Whites, and Blues* examines the political force of folk music, not through the meaning of its lyrics, but through the concrete social activities that make up movements. Drawing from rich archival material, William Roy shows that the People's Songs movement of the 1930s and 40s, and the Civil Rights Movement of the 1950s and 60s implemented folk music's social relationships—specifically between those who sang and those who listened—in different ways, achieving different outcomes.

Roy explores how the People's Songsters envisioned uniting people in song, but made little headway beyond leftist activists. In contrast, the Civil Rights Movement successfully integrated music into collective action, and used music on the picket lines, at sit-ins, on freedom rides, and in jails. Roy considers how the movement's Freedom Songs never gained commercial success, yet contributed to the wider achievements of the Civil Rights struggle. Roy also traces the history of folk music, revealing the complex debates surrounding who or what qualified as "folk" and how the music's status as racially inclusive was not always a given.

Examining folk music's galvanizing and unifying power, *Reds, Whites, and Blues* casts new light on the relationship between cultural forms and social activity.

William G. Roy is professor and chair of the sociology department at the University of California, Los Angeles. He is the author of *Socializing Capital* (Princeton) and *Making Societies*.

PRINCETON STUDIES IN CULTURAL SOCIOLOGY
Paul J. DiMaggio, Michèle Lamont, Robert J. Wuthnow,
and Viviana A. Zelizer, Series Editors

AUGUST

Cloth \$35.00S

978-0-691-14363-7

304 pages. 4 tables. 6 x 9.

SOCIOLOGY ■ POLITICS

ECONOMIC SOCIOLOGY

A Systematic Inquiry

ALEJANDRO PORTES

The sociological study of economic activity has witnessed a significant resurgence. Recent texts have chronicled economic sociology's nineteenth-century origins while pointing to the importance of context and power in economic life, yet the field lacks a clear understanding of the role that concepts at different levels of abstraction play in its organization. *Economic Sociology* fills this critical gap by surveying the current state of the field while advancing a framework for further theoretical development.

Alejandro Portes examines economic sociology's principal assumptions, key explanatory concepts, and selected research sites. He argues that economic activity is embedded in social and cultural relations, but also that power and the unintended consequences of rational purposive action must be factored in when seeking to explain or predict economic behavior. Drawing upon a wealth of examples, Portes identifies three strategic sites of research—the informal economy, ethnic enclaves, and transnational communities—and he eschews grand narratives in favor of mid-range theories that help us understand specific kinds of social action.

The book shows how the meta-assumptions of economic sociology can be transformed, under certain conditions, into testable propositions, and puts forward a theoretical agenda aimed at moving the field out of its present impasse.

Alejandro Portes is the Howard Harrison and Gabrielle Snyder Beck Professor of Sociology at Princeton University. His books include *Legacies: The Story of the Immigrant Second Generation*.

JUNE

Paper \$27.95S

978-0-691-14223-4

Cloth \$75.00S

978-0-691-14222-7

368 pages. 17 line illus. 23 tables. 6 x 9.

SOCIOLOGY ■ SOCIAL SCIENCE

ORDERLY FASHION

A Sociology of Markets

PATRIK ASPERS

For any market to work properly, certain key elements are necessary: competition, pricing, rules, clearly defined offers, and easy access to information. Without these components, there would be chaos. *Orderly Fashion* examines how order is maintained in the different interconnected consumer, producer, and credit markets of the global fashion industry. From retailers in Sweden and the United Kingdom, to producers in India and Turkey, Patrik Aspers focuses on branded garment retailers—chains such as Gap, H&M, Old Navy, Topshop, and Zara. Aspers investigates these retailers' interactions and competition in the consumer market for fashion garments, traces connections between producer and consumer markets, and demonstrates why market order is best understood through an analysis of its different forms of social construction.

Emphasizing consumption rather than production, Aspers considers the larger retailers' roles as buyers in the production market of garments, and as potential objects of investment in financial markets. He shows how markets overlap and intertwine and he defines two types of markets—status markets and standard markets. In status markets, market order is related to the identities of the participating actors more than the quality of the goods, whereas in standard markets the opposite holds true.

Looking at how identities, products, and values create the ordered economic markets of the global fashion business, *Orderly Fashion* has wide implications for all modern markets, regardless of industry.

Patrik Aspers is associate professor of sociology at Stockholm University. He is the author of *Markets in Fashion*.

JULY

Cloth \$35.00S

978-0-691-14157-2

240 pages. 12 halftones. 2 line illus.

6 tables. 6 x 9.

SOCIOLOGY ■ ECONOMICS

LEARNING BY EXAMPLE

Imitation and Innovation at a Global Bank

DAVID STRANG

In business, as in other aspects of life, we learn and grow from the examples set by others. Imitation can lead to innovation. But in order to grow innovatively, how do businesses decide what firms to imitate? And how do they choose what practices to follow? *Learning by Example* takes an unprecedented look at the benchmarking initiative of a major financial institution. David Strang closely follows twenty-one teams of managers sent out to observe the practices of other companies in order to develop recommendations for change in their own organization.

Through extensive interviews, surveys, and archival materials, Strang reveals that benchmarking promotes a distinctive managerial regime with potential benefits and pitfalls. He explores the organizations treated as models of best practice, the networks that surround a bank and form its reference group, the ways managers craft calls for change, and the programs implemented in the wake of vicarious learning. Strang finds that imitation does not occur through mindless conformity. Instead, managers act creatively, combining what they see in external site visits with their bank's strategic objectives, interpreted in light of their understanding of rational and progressive management.

Learning by Example opens the black box of interorganizational diffusion to show how managers interpret, advocate, and implement innovations.

David Strang is professor of sociology at Cornell University.

JULY

Cloth \$35.00S

978-0-691-14218-0

240 pages. 5 line illus. 29 tables. 6 x 9.

SOCIOLOGY ■ BUSINESS

THE ENTREPRENEURIAL GROUP

Social Identities, Relations, and Collective Action

MARTIN RUEF

Recent surveys show that more than half of American entrepreneurs share ownership in their business startups rather than going it alone, and experts in international entrepreneurship have likewise noted the importance of groups in securing microcredit and advancing entrepreneurial initiatives in the developing world. Yet the media and many scholars continue to perpetuate the myth of the lone visionary who single-handedly revolutionizes the marketplace. *The Entrepreneurial Group* shatters this myth, demonstrating that teams, not individuals, are the leading force behind entrepreneurial startups.

This is the first book to provide an in-depth sociological analysis of entrepreneurial groups, and to put forward a theoretical framework—called relational demography—for understanding activities and outcomes within them. Martin Ruef looks at entrepreneurial teams in the United States during the boom years of the late 1990s and the recent recessionary bust. He identifies four mechanisms for explaining the dynamics of entrepreneurial groups: in-group biases on salient demographic dimensions; intimate relationships to spouses, cohabiting partners, and kin; a tendency to organize activities in residential or “virtual” spaces; and entrepreneurial goals that prioritize social and psychological fulfillment over material well-being. Ruef provides evidence showing when favorable outcomes—with respect to group formalization, equality, effort, innovation, and survival—follow from these mechanisms.

The Entrepreneurial Group reveals how studying the social structure of entrepreneurial action can shed light on the creation of new organizations.

Martin Ruef is professor of sociology at Princeton University. His books include *The Sociology of Entrepreneurship* and *Organizations Evolving*.

AUGUST

Cloth \$35.00S

978-0-691-13809-1

248 pages. 30 line illus. 6 x 9.

SOCIOLOGY ■ BUSINESS

VALUING THE UNIQUE

The Economics of Singularities

LUCIEN KARPIK

Translated by Nora Scott

In this landmark work of economic sociology, Lucien Karpik introduces the theory and practical tools needed to analyze markets for singularities. Singularities are goods and services that cannot be studied by standard methods because they are multidimensional, incommensurable, and of uncertain quality. Examples include movies, novels, music, artwork, fine wine, lawyers, and doctors. *Valuing the Unique* provides a theoretical framework to explain this important class of products and markets that for so long have eluded neoclassical economics.

With this innovative theory—called the economics of singularities—Karpik shows that, because of the uncertainty and the highly subjective valuation of singularities, these markets are necessarily equipped with what he calls “judgment devices”—such as labels, brands, guides, critics, and rankings—which provide consumers with the credible knowledge needed to make reasonable choices. He explains why these markets are characterized by the primacy of competition by qualities over competition by prices, and he identifies the conditions under which singularities are constructed or are in danger of losing their uniqueness.

After demonstrating how combinations of the numerous and multiform judgment devices can be used to identify different market models, Karpik applies his analytical tools to the functioning of a large number of actual markets, including fine wines, movies, luxury goods, pop music, and legal services.

Lucien Karpik is a sociologist at the École des Mines and the Centre Raymond Aron (EHESS) in Paris. His books include *French Lawyers: A Study in Collective Action, 1274–1994* and, with Terence C. Halliday and Malcolm M. Feeley, *Fighting for Political Freedom: Comparative Studies of the Legal Complex and Political Liberalism*.

JULY

Paper \$39.50S

978-0-691-13710-0

Cloth \$85.00S

978-0-691-13584-7

256 pages. 2 line illus. 5 tables. 6 x 9.

SOCIOLOGY ■ ECONOMICS

THE MICROTHEORY OF INNOVATIVE ENTREPRENEURSHIP

WILLIAM J. BAUMOL

Entrepreneurs are widely recognized for the vital contributions they make to economic growth and general welfare, yet until fairly recently entrepreneurship was not considered worthy of serious economic study. Today, progress has been made to integrate entrepreneurship into macroeconomics, but until now the entrepreneur has been almost completely excluded from microeconomics and standard theoretical models of the firm. *The Microtheory of Innovative Entrepreneurship* provides the framework for introducing entrepreneurship into mainstream microtheory and incorporating the activities of entrepreneurs, inventors, and managers into standard models of the firm.

William Baumol distinguishes between the innovative entrepreneur, who comes up with new ideas and puts them into practice, and the replicative entrepreneur, which can be anyone who launches a new business venture, regardless of whether similar ventures already exist. Baumol puts forward a quasi-formal theoretical analysis of the innovative entrepreneur's influential role in economic life. In doing so, he opens the way to bringing innovative entrepreneurship into the accepted body of mainstream microeconomics, and offers valuable insights that can be used to design more effective policies.

The Microtheory of Innovative Entrepreneurship lays the foundation for a new kind of microtheory that reflects the innovative entrepreneur's importance to economic growth and prosperity.

William J. Baumol is professor of economics and academic director of the Berkley Center for Entrepreneurial Studies at New York University. His many books include *The Free-Market Innovation Machine: Analyzing the Growth Miracle of Capitalism* and *The Invention of Enterprise: Entrepreneurship from Ancient Mesopotamia to Modern Times* (both Princeton).

THE KAUFFMAN FOUNDATION SERIES
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THE MICROECONOMICS OF ENTREPRENEURSHIP

"Baumol is one of the giants in the entrepreneurship field. *The Microtheory of Innovative Entrepreneurship* will be widely read, discussed, and debated, and is likely to have a significant impact on the scholarly conversation."

—Peter G. Klein, University of Missouri

"This book is a timely and valuable contribution to the economics of entrepreneurship. Baumol's ambitious goal is to give the entrepreneur his rightful place in economic theory. He demonstrates that, contrary to conventional thinking, the elusive figure of the entrepreneur is indeed amenable to logical economic analysis."

—Simon C. Parker, University of Western Ontario

JULY

Cloth \$39.50S

978-0-691-14584-6

224 pages. 1 halftone.

10 line illus. 4 tables. 6 x 9.

ECONOMICS ■ BUSINESS

PRESS.PRINCETON.EDU

LABOR MARKETS AND BUSINESS CYCLES

ROBERT SHIMER

Labor Markets and Business Cycles integrates search and matching theory with the neoclassical growth model to better understand labor market outcomes. Robert Shimer shows analytically and quantitatively that rigid wages are important for explaining the volatile behavior of the unemployment rate in business cycles.

The book focuses on the labor wedge that arises when the marginal rate of substitution between consumption and leisure does not equal the marginal product of labor. According to competitive models of the labor market, the labor wedge should be constant and equal to the labor income tax rate. But in U.S. data, the wedge is strongly countercyclical, making it seem as if recessions are periods when workers are dissuaded from working and firms are dissuaded from hiring because of an increase in the labor income tax rate. When job searches are time consuming and wages are flexible, search frictions—the cost of a job search—act like labor adjustment costs, further exacerbating inconsistencies between the competitive model and data. The book shows that wage rigidities can reconcile the search model with the data, providing a quantitatively more accurate depiction of labor markets, consumption, and investment dynamics.

Developing detailed search and matching models, *Labor Markets and Business Cycles* will be the main reference for those interested in the intersection of labor market dynamics and business cycle research.

Robert Shimer is the Alvin H. Baum Professor in Economics and the College at the University of Chicago.

CREI LECTURES IN MACROECONOMICS

MAY

Cloth \$39.50S

978-0-691-14022-3

208 pages. 14 line illus. 16 tables. 6 x 9.

ECONOMICS

COMPLETE AND INCOMPLETE ECONOMETRIC MODELS

JOHN GEWEKE

Econometric models are widely used in the creation and evaluation of economic policy in the public and private sectors. But these models are useful only if they adequately account for the phenomena in question, and they can be quite misleading if they do not. In response, econometricians have developed tests and other checks for model adequacy. All of these methods, however, take as given the specification of the model to be tested. In this book, John Geweke addresses the critical earlier stage of model development, the point at which potential models are inherently incomplete.

Summarizing and extending recent advances in Bayesian econometrics, Geweke shows how simple modern simulation methods can complement the creative process of model formulation. These methods, which are accessible to economics PhD students as well as to practicing applied econometricians, streamline the processes of model development and specification checking. Complete with illustrations from a wide variety of applications, this is an important contribution to econometrics that will interest economists and PhD students alike.

John Geweke is Distinguished Professor at the University of Technology, Sydney, and research professor at the University of Colorado. He is the coeditor of the *Journal of Econometrics* and his most recent previous book is *Contemporary Bayesian Econometrics and Statistics* (Wiley).

THE ECONOMETRIC AND TINBERGEN INSTITUTES LECTURES
Herman K. Van Dijk and Philip Hans Franses, Series Editors

MARCH

Cloth \$40.00S

978-0-691-14002-5

176 pages. 23 line illus.

12 tables. 5 1/2 x 8 1/2.

ECONOMICS

UNSETTLED ACCOUNT

The Evolution of Banking in
the Industrialized World since 1800

RICHARD S. GROSSMAN

Commercial banks are among the oldest and most familiar financial institutions. When they work well, we hardly notice; when they do not, we rail against them. What are the historical forces that have shaped the modern banking system? In *Unsettled Account*, Richard Grossman takes the first truly comparative look at the development of commercial banking systems over the past two centuries in Western Europe, the United States, Canada, Japan, and Australia. Grossman focuses on four major elements that have contributed to banking evolution: crises, bailouts, mergers, and regulations. He explores where banking crises come from and why certain banking systems are more resistant to crises than others, how governments and financial systems respond to crises, why merger movements suddenly take off, and what motivates governments to regulate banks.

Grossman finds that many of the same components underlying the history of banking evolution are at work today. The recent subprime mortgage crisis had its origins, like many earlier banking crises, in a boom-bust economic cycle. Grossman finds that important historical elements are also at play in modern bailouts, merger movements, and regulatory reforms.

Unsettled Account is a fascinating and informative must-read for anyone who wants to understand how the modern commercial banking system came to be, where it is headed, and how its development will affect global economic growth.

Richard S. Grossman is professor of economics at Wesleyan University and a visiting scholar at the Institute for Quantitative Social Science at Harvard University.

THE PRINCETON ECONOMIC HISTORY OF THE WESTERN WORLD
Joel Mokyr, Series Editor

A SWEEPING LOOK AT THE EVOLUTION
OF COMMERCIAL BANKS OVER
THE PAST TWO CENTURIES

“This excellent and well-organized book will be the standard reference on commercial banking history for years to come.”

—Michael Bordo, Rutgers University

“Until now, banking history has stubbornly clung to national boundaries, comparative inquiries being rare. In this book, the author has done an excellent job of synthesizing the large and varied literature, producing a readable and accessible book.”

—Joost Jonker, Utrecht University

JULY

Cloth \$39.50S

978-0-691-13905-0

400 pages. 44 line illus. 18 tables. 6 x 9.

ECONOMICS ■ HISTORY

PRESS.PRINCETON.EDU

FORWARD-LOOKING DECISION MAKING

Dynamic Programming Models Applied to Health,
Risk, Employment, and Financial Stability

ROBERT E. HALL

Individuals and families make key decisions that impact many aspects of financial stability and determine the future of the economy. These decisions involve balancing current sacrifice against future benefits. People have to decide how much to invest in health care, exercise, their diet, and insurance. They must decide how much debt to take on, and how much to save. And they make choices about jobs that determine employment and unemployment levels. *Forward-Looking Decision Making* is about modeling this individual or family-based decision making using an optimizing dynamic programming model.

Robert Hall first reviews ideas about dynamic programs and introduces new ideas about numerical solutions and the representation of solved models as Markov processes. He surveys recent research on the parameters of preferences—the intertemporal elasticity of substitution, the Frisch elasticity of labor supply, and the Frisch cross-elasticity. He then examines dynamic programming models applied to health spending, long-term care insurance, employment, entrepreneurial risk-taking, and consumer debt.

Linking theory with data and applying them to real-world problems, *Forward-Looking Decision Making* uses dynamic optimization programming models to shed light on individual behaviors and their economic implications.

Robert E. Hall is the Robert and Carole McNeil Professor of Economics and Hoover Senior Fellow at Stanford University. He is the author of *The Rational Consumer*, *Booms and Recessions in a Noisy Economy*, and *Digital Dealing*.

THE GORMAN LECTURES IN ECONOMICS
Richard Blundell, Series Editor

MARCH

Cloth \$39.50S

978-0-691-14242-5

152 pages. 30 line illus. 5 1/2 x 8 1/2.

ECONOMICS

INNOVATION, INTELLECTUAL PROPERTY, AND ECONOMIC GROWTH

CHRISTINE GREENHALGH &
MARK ROGERS

What drives innovation? How does it contribute to the growth of firms, industries, and economies? And do intellectual property rights help or hurt innovation and growth? Uniquely combining microeconomics, macroeconomics, and theory with empirical analysis drawn from the United States and Europe, this book introduces graduate students and advanced undergraduates to the complex process of innovation. By addressing all the major dimensions of innovation in a single text, Christine Greenhalgh and Mark Rogers are able to show how outcomes at the microlevel feed through to the macro-outcomes that in turn determine personal incomes and job opportunities.

In four sections, this textbook comprehensively addresses the nature of innovation and intellectual property, the microeconomics and macroeconomics of innovation, and economic policy at the firm and macroeconomic levels. Among the topics fully explored are the role of intellectual property in creating incentives to innovate; the social returns of innovation; the creation and destruction of jobs by innovation; whether more or fewer intellectual property rights would give firms better incentives to innovate; and the contentious issues surrounding international treaties on intellectual property.

Christine Greenhalgh is professor of applied economics at the University of Oxford and fellow and tutor in economics at St. Peter's College, Oxford. **Mark Rogers** is fellow in economics at Harris Manchester College, Oxford, and professor of the economics of innovation at Aston University.

JANUARY

Paper \$45.00S

978-0-691-13799-5

Cloth \$90.00S

978-0-691-13798-8

384 pages. 30 line illus. 6 x 9.

ECONOMICS

THE NEW DYNAMIC PUBLIC FINANCE

NARAYANA R. KOCHERLAKOTA

Optimal tax design attempts to resolve a well-known trade-off: namely, that high taxes are bad insofar as they discourage people from working, but good to the degree that, by redistributing wealth, they help insure people against productivity shocks. Until recently, however, economic research on this question either ignored people's uncertainty about their future productivities or imposed strong and unrealistic functional form restrictions on taxes. In response to these problems, the new dynamic public finance was developed to study the design of optimal taxes given only minimal restrictions on the set of possible tax instruments, and on the nature of shocks affecting people in the economy. In this book, Narayana Kocherlakota surveys and discusses this exciting new approach to public finance.

An important book for advanced PhD courses in public finance and macroeconomics, *The New Dynamic Public Finance* provides a formal connection between the problem of dynamic optimal taxation and dynamic principal-agent contracting theory. This connection means that the properties of solutions to principal-agent problems can be used to determine the properties of optimal tax systems. The book shows that such optimal tax systems necessarily involve asset income taxes, which may depend in sophisticated ways on current and past labor incomes. It also addresses the implications of this new approach for qualitative properties of optimal monetary policy, optimal government debt policy, and optimal bequest taxes. In addition, the book describes computational methods for approximate calculation of optimal taxes, and discusses possible paths for future research.

Narayana R. Kocherlakota is professor of economics at the University of Minnesota.

THE TOULOUSE LECTURES IN ECONOMICS
Patrick Rey, Series Editor

JULY

Cloth \$39.955

978-0-691-13915-9

200 pages. 15 line illus. 5 ½ x 8 ½.

ECONOMICS ■ FINANCE

THE KNOWN, THE UNKNOWN, AND THE UNKNOWABLE IN FINANCIAL RISK MANAGEMENT

Measurement and Theory Advancing Practice

EDITED BY FRANCIS X. DIEBOLD,
NEIL A. DOHERTY &
RICHARD J. HERRING

A clear understanding of what we know, don't know, and can't know should guide any reasonable approach to managing financial risk, yet the most widely used measure in finance today—Value at Risk, or VaR—reduces these risks to a single number, creating a false sense of security among risk managers, executives, and regulators. This book introduces a more realistic and holistic framework called *KuU*—the *Known*, the *unknown*, and the *Unknowable*—that enables one to conceptualize the different kinds of financial risks and design effective strategies for managing them. Bringing together contributions by leaders in finance and economics, such as Nassim Nicholas Taleb, Robert Engle, and Donald Kohn, this book pushes toward robustifying policies, portfolios, contracts, and organizations to a wide variety of *KuU* risks. Along the way, the strengths and *limitations* of “quantitative” risk management are revealed.

Francis X. Diebold is the Paul F. and E. Warren Shafer Miller Professor of Economics at the University of Pennsylvania and professor of finance and statistics at the university's Wharton School. **Neil A. Doherty** is the Frederick H. Ecker Professor of Insurance and Risk Management at the Wharton School. **Richard J. Herring** is the Jacob Safra Professor of International Banking and professor of finance at the Wharton School.

AUGUST

Cloth \$60.005

978-0-691-12883-2

392 pages. 4 halftones.

31 line illus. 23 tables. 6 x 9.

FINANCE ■ ECONOMICS

PORTFOLIO RISK FORECASTING

GREGORY CONNOR, LISA GOLDBERG
& ROBERT KORAJCZYK

Portfolio risk forecasting has been and continues to be an active research field for both academics and practitioners. Almost all institutional investment management firms use quantitative models for their portfolio forecasting, and researchers have explored models' econometric foundations, relative performance, and implications for capital market behavior and asset pricing equilibrium. *Portfolio Risk Forecasting* provides an insightful and thorough overview of financial risk modeling, with an emphasis on practical applications, empirical reality, and historical perspective.

Beginning with mean-variance analysis and the capital asset pricing model, the authors give a comprehensive and detailed account of factor models, which are the key to successful risk analysis in every economic climate. Topics range from the relative merits of fundamental, statistical, and macroeconomic models, to GARCH and other time series models, to the properties of the VIX volatility index. The book covers both mainstream and alternative asset classes, and includes in-depth treatments of model integration and evaluation. Credit and liquidity risk and the uncertainty of extreme events are examined in an intuitive and rigorous way. An extensive literature review accompanies each topic. The authors complement basic modeling techniques with references to applications, empirical studies, and advanced mathematical texts.

Gregory Connor is professor of finance at the National University of Ireland, Maynooth, and senior research associate at the London School of Economics and Political Science. **Lisa Goldberg** is executive director of analytic initiatives at MSCI Barra and adjunct professor of statistics at the University of California, Berkeley. **Robert Korajczyk** is professor of finance at Northwestern University.

APRIL

Cloth \$85.00S

978-0-691-12828-3

400 pages. 6 x 9.

FINANCE ■ ECONOMICS

EXOPLANET ATMOSPHERES

Physical Processes

SARA SEAGER

Over the past twenty years, astronomers have identified hundreds of extrasolar planets—planets orbiting stars other than the sun. Recent research in this burgeoning field has made it possible to observe and measure the atmospheres of these exoplanets. This is the first textbook to describe the basic physical processes—including radiative transfer, molecular absorption, and chemical processes—common to all planetary atmospheres, as well as the transit, eclipse, and thermal phase variation observations that are unique to exoplanets.

In each chapter, Sara Seager offers a conceptual introduction, examples that combine the relevant physics equations with real data, and exercises. Topics range from foundational knowledge, such as the origin of atmospheric composition and planetary spectra, to more advanced concepts, such as solutions to the radiative transfer equation, polarization, and molecular and condensate opacities. Because planets vary widely in their atmospheric properties, Seager emphasizes the major physical processes that govern all planetary atmospheres.

Moving from first principles to cutting-edge research, *Exoplanet Atmospheres* is an ideal resource for students and researchers in astronomy and earth sciences, one that will help prepare them for the next generation of planetary science.

Sara Seager is professor of planetary science and physics at the Massachusetts Institute of Technology.

PRINCETON SERIES IN ASTROPHYSICS

David N. Spergel, Series Editor

SEPTEMBER

Paper \$45.00S

978-0-691-14645-4

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978-0-691-11914-4

256 pages. 91 illus. 6 x 9.

ASTROPHYSICS ■ PLANETARY SCIENCE

PHYSICS AND TECHNOLOGY FOR FUTURE PRESIDENTS

An Introduction to the Essential Physics
Every World Leader Needs to Know

RICHARD A. MULLER

Physics and Technology for Future Presidents contains the essential physics that students need in order to understand today's core science and technology issues, and to become the next generation of world leaders. From the physics of energy to climate change, and from spy technology to quantum computers, this is the only textbook to focus on the modern physics affecting the decisions of political leaders and CEOs and, consequently, the lives of every citizen. How practical are alternative energy sources? Can satellites really read license plates from space? What is the quantum physics behind iPods and supermarket scanners? And how much should we fear a terrorist nuke? This lively book empowers students possessing any level of scientific background with the tools they need to make informed decisions and to argue their views persuasively with anyone—expert or otherwise.

Based on Richard Muller's renowned course at Berkeley, the book explores critical physics topics: energy and power, atoms and heat, gravity and space, nuclei and radioactivity, chain reactions and atomic bombs, electricity and magnetism, waves, light, invisible light, climate change, quantum physics, and relativity. Muller engages readers through many intriguing examples, helpful facts to remember, a fun-to-read text, and an emphasis on real-world problems rather than mathematical computation. He includes chapter summaries, essay and discussion questions, Internet research topics, and handy tips for instructors to make the classroom experience more rewarding.

Accessible and entertaining, *Physics and Technology for Future Presidents* gives students the scientific fluency they need to become well-rounded leaders in a world driven by science and technology.

Richard A. Muller is professor of physics at the University of California, Berkeley, and a past winner of the MacArthur Fellowship. He is the author of *Nemesis* (Weidenfeld & Nicholson) and *Physics for Future Presidents* (Norton).

PHYSICS FOR FUTURE WORLD LEADERS

“Modern science and technology have the power to shape the world we live in, for good or for evil. Muller, himself a brilliant, creative scientist, has distilled the most important scientific principles that define our choices, and has presented them clearly and objectively. To make wise decisions, not only future presidents, but future business and community leaders, and thoughtful citizens generally, need the information in this book.”

—Frank Wilczek, Nobel Prize-winning physicist

“Richard Muller has written an amazing and very entertaining book, not only for future presidents but for just about everyone else. It's written in a nonmathematical style, but includes tidbits that will amaze even working physicists. This is a great book that should be read by everyone.”

—David Goodstein, California Institute of Technology

MAY

Cloth \$49.50S

978-0-691-13504-5

504 pages. 136 color illus.

13 tables. 7 x 10.

PHYSICS

Restricted instructor's manual is available to teachers

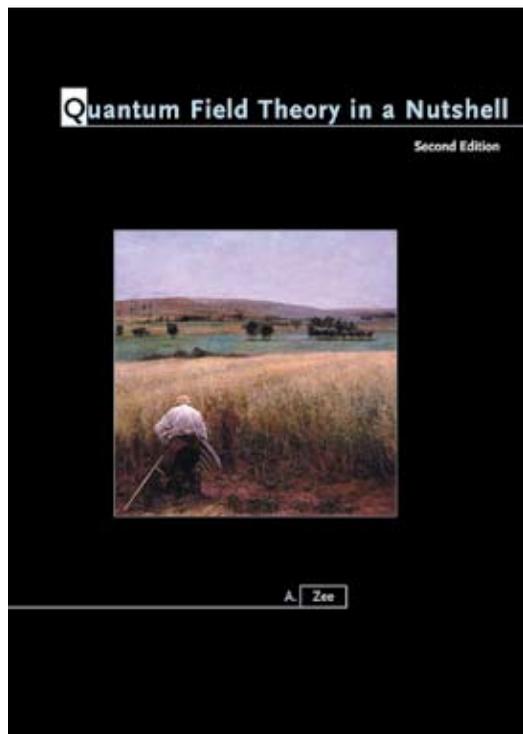
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A FULLY UPDATED EDITION
OF THE CLASSIC TEXT

QUANTUM FIELD THEORY IN A NUTSHELL

Second Edition

A. ZEE



Since it was first published, *Quantum Field Theory in a Nutshell* has quickly established itself as the most accessible and comprehensive introduction to this profound and deeply fascinating area of theoretical physics. Now in this fully revised and expanded edition, A. Zee covers the latest advances while providing a solid conceptual foundation for students to build on, making this the most up-to-date and modern textbook on quantum field theory available.

This expanded edition features several additional chapters, as well as an entirely new section describing recent developments in quantum field theory such as gravitational waves, the helicity spinor formalism, on-shell gluon scattering, recursion relations for amplitudes with complex momenta, and the hidden connection between Yang-Mills theory and Einstein gravity. Zee also provides added exercises, explanations, and examples, as well as detailed appendixes, solutions to selected exercises, and suggestions for further reading.

“A beautiful exposition of the way modern field theorists think about quantum field theory, packed with insights and physical intuition. Zee’s book should be required reading for every serious student of the subject.”

—Nima Arkani-Hamed, Institute for Advanced Study

- ◆ The most accessible and comprehensive introductory textbook available
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A. Zee is professor of physics and a permanent member of the Kavli Institute for Theoretical Physics at the University of California, Santa Barbara. His books include *Fearful Symmetry: The Search for Beauty in Modern Physics* (Princeton).

IN A NUTSHELL

APRIL

Cloth \$65.00S

978-0-691-14034-6

600 pages. 95 line illus. 7 x 10.

PHYSICS

PRESS.PRINCETON.EDU

HOW TO READ HISTORICAL MATHEMATICS

BENJAMIN WARDHAUGH

Writings by early mathematicians feature language and notations that are quite different from what we're familiar with today. Sourcebooks on the history of mathematics provide some guidance, but what has been lacking is a guide tailored to the needs of readers approaching these writings for the first time. *How to Read Historical Mathematics* fills this gap by introducing readers to the analytical questions historians ask when deciphering historical texts.

Sampling actual writings from the history of mathematics, Benjamin Wardhaugh reveals the questions that will unlock the meaning and significance of a given text—Who wrote it, why, and for whom? What was its author's intended meaning? How did it reach its present form? Is it original or a translation? Why is it important today? Wardhaugh teaches readers to think about what the original text might have looked like, to consider where and when it was written, and to formulate questions of their own. Readers pick up new skills with each chapter, and gain the confidence and analytical sophistication needed to tackle virtually any text in the history of mathematics.

- ◆ Introduces readers to the methods of textual analysis used by historians
- ◆ Uses actual source material as examples
- ◆ Features boxed summaries, discussion questions, and suggestions for further reading
- ◆ Supplements all major sourcebooks in mathematics history
- ◆ Designed for easy reference
- ◆ Ideal for students and teachers

Benjamin Wardhaugh is a postdoctoral research fellow at All Souls College, University of Oxford. He is the author of *Music, Experiment, and Mathematics in England, 1653–1705*.

TECHNIQUES FOR DECIPHERING TEXTS
BY EARLY MATHEMATICIANS

"How to Read Historical Mathematics is definitely a significant contribution. There is nothing similar available. It will be a very important resource in any course that makes use of original sources in mathematics and to anyone else who wants to read seriously in the history of mathematics."

—Victor J. Katz, editor of *The Mathematics of Egypt, Mesopotamia, China, India, and Islam*

"Wardhaugh guides mathematics students through the process of reading primary sources in the history of mathematics and understanding some of the main historiographic issues this study involves. This concise handbook is a very significant and, as far as I know, unique companion to the growing corpus of sourcebooks documenting major achievements in mathematics. It explicitly addresses the fundamental questions of why—and more importantly how—one should read primary sources in mathematics history."

—Kim Plofker, author of *Mathematics in India*

MAY

Cloth \$22.95S

978-0-691-14014-8

120 pages. 5 halftones. 5 x 8.

HISTORY OF SCIENCE ■ MATHEMATICS

PRESS.PRINCETON.EDU

NUMERICAL METHODS FOR STOCHASTIC COMPUTATIONS

A Spectral Method Approach

DONGBIN XIU

The first graduate-level textbook to focus on fundamental aspects of numerical methods for stochastic computations, this book describes the class of numerical methods based on generalized polynomial chaos (gPC). These fast, efficient, and accurate methods are an extension of the classical spectral methods of high-dimensional random spaces. Designed to simulate complex systems subject to random inputs, these methods are widely used in many areas of computer science and engineering.

The book introduces polynomial approximation theory and probability theory, describes the basic theory of gPC methods through numerical examples and rigorous development, details the procedure for converting stochastic equations into deterministic ones, using both the Galerkin and collocation approaches, and discusses the distinct differences and challenges arising from high-dimensional problems. The last section is devoted to the application of gPC methods to critical areas such as inverse problems and data assimilation.

Ideal for use by graduate students and researchers both in the classroom and for self-study, *Numerical Methods for Stochastic Computations* provides the required tools for in-depth research related to stochastic computations.

Dongbin Xiu is associate professor of mathematics at Purdue University.

SEPTEMBER

Cloth \$39.50S

978-0-691-14212-8

152 pages. 50 line illus. 6 x 9.

MATHEMATICS ■ COMPUTER SCIENCE ■
ENGINEERING

GRAPH THEORETIC METHODS IN MULTIAGENT NETWORKS

MEHRAN MESBAHI &

MAGNUS EGERSTEDT

This accessible book provides an introduction to the analysis and design of dynamic multiagent networks. Such networks are of great interest in a wide range of areas in science and engineering, including mobile sensor networks; distributed robotics such as formation flying and swarming; quantum networks; networked economics; biological synchronization; and social networks. Focusing on graph theoretic methods for the analysis and synthesis of dynamic multiagent networks, the book presents a powerful new formalism and set of tools for networked systems.

The book's three sections look at foundations, multiagent networks, and networks as systems. The authors give an overview of important ideas from graph theory, followed by a detailed account of the agreement protocol and its various extensions, including the behavior of the protocol over undirected, directed, switching, and random networks. They cover topics such as formation control, coverage, distributed estimation, social networks, and games over networks. And they explore intriguing aspects of viewing networks as systems, by making these networks amenable to control-theoretic analysis and automatic synthesis, by monitoring their dynamic evolution, and by examining higher-order interaction models in terms of simplicial complexes and their applications.

The book will interest graduate students working in systems and control, as well as computer science and robotics. It will be a standard reference for researchers seeking a self-contained account of systems-theoretic aspects of multiagent networks and their wide-ranging applications.

Mehran Mesbahi is associate professor of aeronautics and astronautics at the University of Washington. **Magnus Egerstedt** is associate professor of electrical and computer engineering at Georgia Institute of Technology.

SEPTEMBER

Cloth \$49.50S

978-0-691-14061-2

413 pages. 137 line illus. 6 x 9.

MATHEMATICS ■ ENGINEERING

NONNEGATIVE AND COMPARTMENTAL DYNAMICAL SYSTEMS

WASSIM M. HADDAD,
VIJAYSEKHAR CHELLABOINA
& QING HUI

This comprehensive book provides the first unified framework for stability and dissipativity analysis and control design for nonnegative and compartmental dynamical systems, which play a key role in a wide range of fields, including engineering, thermal sciences, biology, ecology, economics, genetics, chemistry, medicine, and sociology. Using the highest standards of exposition and rigor, the authors explain these systems and advance the state of the art in their analysis and active control design.

Nonnegative and Compartmental Dynamical Systems presents the most complete treatment available of system solution properties, Lyapunov stability analysis, dissipativity theory, and optimal and adaptive control for these systems, addressing continuous-time, discrete-time, and hybrid nonnegative system theory. This book is an indispensable resource for applied mathematicians, dynamical systems theorists, control theorists, and engineers, as well as for researchers and graduate students who want to understand the behavior of nonnegative and compartmental dynamical systems that arise in areas such as biomedicine, demographics, epidemiology, pharmacology, telecommunications, transportation, thermodynamics, networks, heat transfer, and power systems.

Wassim M. Haddad is professor in the School of Aerospace Engineering at Georgia Institute of Technology. **VijaySekhar Chellaboina** holds a PhD in aerospace engineering from Georgia Tech and works for Tata Consultancy Services in Hyderabad, India. **Qing Hui** is assistant professor in the Department of Mechanical Engineering at Texas Tech University.

APRIL

Cloth \$85.00S

978-0-691-14411-5

624 pages. 88 line illus. 4 tables. 7 x 10.

MATHEMATICS ■ ENGINEERING

ADAPTIVE CONTROL OF PARABOLIC PDEs

ANDREY SMYSHLYAEV &
MIROSLAV KRSTIC

This book introduces a comprehensive methodology for adaptive control design of parabolic partial differential equations with unknown functional parameters, including reaction-convection-diffusion systems ubiquitous in chemical, thermal, biomedical, aerospace, and energy systems. Andrey Smyshlyaev and Miroslav Krstic develop explicit feedback laws that do not require real-time solution of Riccati or other algebraic operator-valued equations. The book emphasizes stabilization by boundary control and using boundary sensing for unstable PDE systems with an infinite relative degree. The book also presents a rich collection of methods for system identification of PDEs, methods that employ Lyapunov, passivity, observer-based, swapping-based, gradient, and least-squares tools and parameterizations, among others.

Including a wealth of stimulating ideas and providing the mathematical and control-systems background needed to follow the designs and proofs, the book will be of great use to students and researchers in mathematics, engineering, and physics. It also makes a valuable supplemental text for graduate courses on distributed parameter systems and adaptive control.

Andrey Smyshlyaev is assistant project scientist at the University of California, San Diego. **Miroslav Krstic** is the Sorenson Distinguished Professor and the founding director of the Cymer Center for Control Systems and Dynamics at the University of California, San Diego. Smyshlyaev and Krstic are the authors of *Boundary Control of PDEs*.

JULY

Cloth \$55.00S

978-0-691-14286-9

344 pages. 51 line illus. 6 x 9.

MATHEMATICS ■ ENGINEERING ■
PHYSICS

WITH A NEW FOREWORD BY ROBERT BLAND AND JIM ORLIN

FLOWS IN NETWORKS

L. R. FORD, JR. &
D. R. FULKERSON

In this classic book, first published in 1962, L. R. Ford, Jr., and D. R. Fulkerson set the foundation for the study of network flow problems. The models and algorithms introduced in *Flows in Networks* are used widely today in the fields of transportation systems, manufacturing, inventory planning, image processing, and Internet traffic.

The techniques presented by Ford and Fulkerson spurred the development of powerful computational tools for solving and analyzing network flow models, and also furthered the understanding of linear programming. In addition, the book helped illuminate and unify results in combinatorial mathematics while emphasizing proofs based on computationally efficient construction.

Flows in Networks is rich with insights that remain relevant to current research in engineering, management, and other sciences. This landmark work belongs on the bookshelf of every researcher working with networks.

L. R. Ford, Jr., worked as a researcher for both CEIR Inc. and the Rand Corporation before his retirement.

D. R. Fulkerson (1924–1976) was a mathematician at the Rand Corporation.

PRINCETON LANDMARKS IN MATHEMATICS

JULY
Paper \$29.50S

978-0-691-14667-6

208 pages. 6 x 9.

MATHEMATICS ■ ENGINEERING

WITH A NEW INTRODUCTION BY STUART DREYFUS

DYNAMIC PROGRAMMING

RICHARD ERNEST BELLMAN

This classic book is an introduction to dynamic programming, presented by the scientist who coined the term and developed the theory in its early stages. In *Dynamic Programming*, Richard Bellman introduces his groundbreaking theory and furnishes a new and versatile mathematical tool for the treatment of many complex problems, both within and outside of the discipline.

The book is written at a moderate mathematical level, requiring only a basic foundation in mathematics, including calculus. The applications formulated and analyzed in such diverse fields as mathematical economics, logistics, scheduling theory, communication theory, and control processes are as relevant today as they were when Bellman first presented them. A new introduction by Stuart Dreyfus reviews Bellman's later work on dynamic programming and identifies important research areas that have profited from the application of Bellman's theory.

Richard Ernest Bellman (1920–1984) is best known as the father of dynamic programming. He was the author of many books and the recipient of many honors, including the first Norbert Wiener Prize in Applied Mathematics.

PRINCETON LANDMARKS IN MATHEMATICS

JUNE
Paper \$39.50S

978-0-691-14668-3

360 pages. 6 x 9.

MATHEMATICS ■ ENGINEERING

ON THE COHOMOLOGY OF CERTAIN NON-COMPACT SHIMURA VARIETIES

SOPHIE MOREL

This book studies the intersection cohomology of the Shimura varieties associated to unitary groups of any rank over \mathbb{Q} . In general, these varieties are not compact. The intersection cohomology of the Shimura variety associated to a reductive group G carries commuting actions of the absolute Galois group of the reflex field and of the group $G(A_f)$ of finite adelic points of G . The second action can be studied on the set of complex points of the Shimura variety. In this book, Sophie Morel identifies the Galois action—at good places—on the $G(A_f)$ -isotypical components of the cohomology.

Morel uses the method developed by Langlands, Ihara, and Kottwitz, which is to compare the Grothendieck-Lefschetz fixed point formula and the Arthur-Selberg trace formula. The first problem, that of applying the fixed point formula to the intersection cohomology, is geometric in nature and is the object of the first chapter, which builds on Morel's previous work. She then turns to the group-theoretical problem of comparing these results with the trace formula, when G is a unitary group over \mathbb{Q} . Applications are then given. In particular, the Galois representation on a $G(A_f)$ -isotypical component of the cohomology is identified at almost all places, modulo a non-explicit multiplicity. Morel also gives some results on base change from unitary groups to general linear groups.

Sophie Morel is a member in the School of Mathematics at the Institute for Advanced Study in Princeton and a research fellow at the Clay Mathematics Institute.

ANNALS OF MATHEMATICS STUDIES, 173
Phillip A. Griffiths, John N. Mather, and Elias M. Stein, Series Editors

MARCH

Paper \$39.50S
978-0-691-14293-7
Cloth \$75.00S
978-0-691-14292-0
256 pages. 6 x 9.
MATHEMATICS

INTRODUCTION TO RAMSEY SPACES

STEVO TODORCEVIC

Ramsey theory is a fast-growing area of combinatorics with deep connections to other fields of mathematics such as topological dynamics, ergodic theory, mathematical logic, and algebra. The area of Ramsey theory dealing with Ramsey-type phenomena in higher dimensions is particularly useful. *Introduction to Ramsey Spaces* presents in a systematic way a method for building higher-dimensional Ramsey spaces from basic one-dimensional principles. It is the first book-length treatment of this area of Ramsey theory, and emphasizes applications for related and surrounding fields of mathematics, such as set theory, combinatorics, real and functional analysis, and topology. In order to facilitate accessibility, the book gives the method in its axiomatic form with examples that cover many important parts of Ramsey theory both finite and infinite.

An exciting new direction for combinatorics, this book will interest graduate students and researchers working in mathematical subdisciplines requiring the mastery and practice of high-dimensional Ramsey theory.

Stevo Todorcevic is professor of mathematics at the University of Toronto and holds senior research positions at the CNRS in Paris and SANU in Belgrade. He is the author or coauthor of several books, including *Walks on Ordinals and Their Characteristics* and *Ramsey Methods in Analysis*.

ANNALS OF MATHEMATICS STUDIES, 174
Phillip A. Griffiths, John N. Mather, and Elias M. Stein, Series Editors

JULY

Paper \$45.00S
978-0-691-14542-6
Cloth \$89.50S
978-0-691-14541-9
296 pages. 12 line illus. 6 x 9.
MATHEMATICS

LOG-GASES AND RANDOM MATRICES

PETER J. FORRESTER

Random matrix theory, both as an application and as a theory, has evolved rapidly over the past fifteen years. *Log-Gases and Random Matrices* gives a comprehensive account of these developments, emphasizing log-gases as a physical picture and heuristic, as well as covering topics such as beta ensembles and Jack polynomials.

Peter Forrester presents an encyclopedic development of log-gases and random matrices viewed as examples of integrable or exactly solvable systems. Forrester develops not only the application and theory of Gaussian and circular ensembles of classical random matrix theory, but also of the Laguerre and Jacobi ensembles, and their beta extensions. Prominence is given to the computation of a multitude of Jacobians; determinantal point processes and orthogonal polynomials of one variable; the Selberg integral, Jack polynomials, and generalized hypergeometric functions; Painlevé transcendents; macroscopic electrostatics and asymptotic formulas; nonintersecting paths and models in statistical mechanics; and applications of random matrix theory. This is the first textbook development of both nonsymmetric and symmetric Jack polynomial theory, as well as the connection between Selberg integral theory and beta ensembles. The author provides hundreds of guided exercises and linked topics, making *Log-Gases and Random Matrices* an indispensable reference work, as well as a learning resource for all students and researchers in the field.

Peter J. Forrester is professor of mathematics at the University of Melbourne.

LONDON MATHEMATICAL SOCIETY MONOGRAPHS
Martin Bridson, Terry Lyons, and Peter Sarnak, Series Editors

JULY

Cloth \$99.50S

978-0-691-12829-0

808 pages. 6 x 9.

MATHEMATICS ■ PHYSICS

FROM POPULATIONS TO ECOSYSTEMS

Theoretical Foundations for a
New Ecological Synthesis

MICHEL LOREAU

The major subdisciplines of ecology—population ecology, community ecology, ecosystem ecology, and evolutionary ecology—have diverged increasingly in recent decades. What is critically needed today is an integrated, real-world approach to ecology that reflects the interdependency of biodiversity and ecosystem functioning. *From Populations to Ecosystems* proposes an innovative theoretical synthesis that will enable us to advance our fundamental understanding of ecological systems and help us to respond to today's emerging global ecological crisis.

Michel Loreau begins by explaining how the principles of population dynamics and ecosystem functioning can be merged. He then addresses key issues in the study of biodiversity and ecosystems, such as functional complementarity, food webs, stability and complexity, material cycling, and metacommunities. Loreau describes the most recent theoretical advances that link the properties of individual populations to the aggregate properties of communities, and the properties of functional groups or trophic levels to the functioning of whole ecosystems, placing special emphasis on the relationship between biodiversity and ecosystem functioning. Finally, he turns his attention to the controversial issue of the evolution of entire ecosystems and their properties, laying the theoretical foundations for a genuine evolutionary ecosystem ecology.

Michel Loreau is professor and Canada Research Chair in theoretical ecology at McGill University.

MONOGRAPHS IN POPULATION BIOLOGY
Simon A. Levin and Henry S. Horn, Series Editors

AUGUST

Paper \$45.00S

978-0-691-12270-0

Cloth \$99.50S

978-0-691-12269-4

328 pages. 19 halftones. 54 line illus.

4 tables. 6 x 9.

ECOLOGY ■ BIOLOGY

THE SYMBIOTIC HABIT

ANGELA E. DOUGLAS

Throughout the natural world, organisms have responded to predators, inadequate resources, or inclement conditions by forming ongoing mutually beneficial partnerships—or symbioses—with different species. Symbiosis is the foundation for major evolutionary events, such as the emergence of eukaryotes and plant eating among vertebrates, and is also a crucial factor in shaping many ecological communities. *The Symbiotic Habit* provides an accessible and authoritative introduction to symbiosis, describing how symbioses are established, function, and persist in evolutionary and ecological time.

Angela Douglas explains the evolutionary origins and development of symbiosis, and illustrates the principles of symbiosis using a variety of examples of symbiotic relationships as well as nonsymbiotic ones, such as parasitic or fleeting mutualistic associations. Although the reciprocal exchange of benefit is the key feature of symbioses, the benefits are often costly to provide, causing conflict among the partners. Douglas shows how these conflicts can be managed by a single controlling organism that may selectively reward cooperative partners, control partner transmission, and employ recognition mechanisms that discriminate between beneficial and potentially harmful or ineffective partners.

The Symbiotic Habit reveals the broad uniformity of symbiotic process across many different symbioses among organisms with diverse evolutionary histories, and demonstrates how symbioses can be used to manage ecosystems, enhance food production, and promote human health.

Angela E. Douglas is the Daljit S. and Elaine Sarkaria Professor of Insect Physiology and Toxicology at Cornell University. She is the author of *Symbiotic Interactions* and the coauthor of *The Biology of Symbiosis*.

MAY

Cloth \$45.00S

978-0-691-11341-8

232 pages. 25 halftones.

16 line illus. 7 tables. 6 x 9.

BIOLOGY

ANT ENCOUNTERS

Interaction Networks and Colony Behavior

DEBORAH M. GORDON

How do ant colonies get anything done, when no one is in charge? An ant colony operates without a central control or hierarchy, and no ant directs another. Instead, ants decide what to do based on the rate, rhythm, and pattern of individual encounters and interactions—resulting in a dynamic network that coordinates the functions of the colony. *Ant Encounters* provides a revealing and accessible look into ant behavior from this complex systems perspective.

Drawing primarily from her work on harvester ants, Deborah Gordon focuses on the moment-to-moment behavior of ant colonies. She investigates the role of interaction networks in regulating colony behavior and relations among ant colonies. She shows how ant behavior within and between colonies arises from local interactions of individuals, and how interaction networks develop as a colony grows older and larger. The more rapidly ants react to their encounters, the more sensitively the entire colony responds to changing conditions. Gordon explores whether such reactive networks help a colony to survive and reproduce, how natural selection shapes colony networks, and how these structures compare to other analogous complex systems.

Ant Encounters sheds light on the organizational behavior, ecology, and evolution of these diverse and ubiquitous social insects.

Deborah M. Gordon is professor of biology at Stanford University. She is the author of *Ants at Work* (Norton).

PRIMERS IN COMPLEX SYSTEMS

MAY

Paper \$16.95S

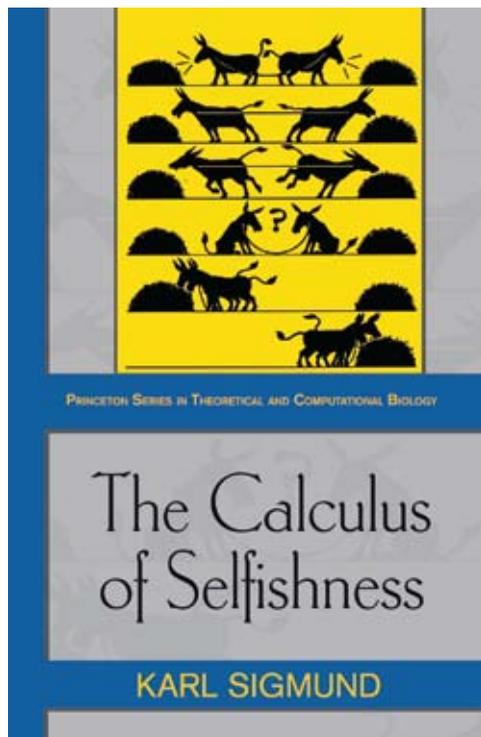
978-0-691-13879-4

152 pages. 2 halftones.

1 line illus. 5 1/2 x 8 1/2.

BIOLOGY

A PIONEER IN EVOLUTIONARY GAME THEORY
LOOKS AT SELFISHNESS AND COOPERATION



“Karl Sigmund helped conceive the field of evolutionary game theory and has dominated it for over thirty years. With *The Calculus of Selfishness*, he has written a highly engaging and captivating book for students and experts who want to learn about one of the most fascinating fields of science. When it comes to Karl Sigmund we are all students. This book is written for you and me.”

—Martin Nowak, Harvard University

THE CALCULUS OF SELFISHNESS

KARL SIGMUND

How does cooperation emerge among selfish individuals? When do people share resources, punish those they consider unfair, and engage in joint enterprises? These questions fascinate philosophers, biologists, and economists alike, for the “invisible hand” that should turn selfish efforts into public benefit is not always at work. *The Calculus of Selfishness* looks at social dilemmas where cooperative motivations are subverted and self-interest becomes self-defeating. Karl Sigmund, a pioneer in evolutionary game theory, uses simple and well-known game theory models to examine the foundations of collective action and the effects of reciprocity and reputation.

Focusing on some of the best-known social and economic experiments, including games such as the Prisoner’s Dilemma, Trust, Ultimatum, Snowdrift, and Public Good, Sigmund explores the conditions leading to cooperative strategies. His approach is based on evolutionary game dynamics, applied to deterministic and probabilistic models of economic interactions.

Exploring basic strategic interactions among individuals guided by self-interest and caught in social traps, *The Calculus of Selfishness* analyzes to what extent one key facet of human nature—selfishness—can lead to cooperation.

Karl Sigmund is professor of mathematics at the University of Vienna. He is the author of *Games of Life* (Penguin), coauthor of *Evolutionary Games and Population Dynamics*, and a contributor to *Nature and Science*.

PRINCETON SERIES IN THEORETICAL AND COMPUTATIONAL BIOLOGY
Simon A. Levin, Series Editor

MARCH

Cloth \$35.00S

978-0-691-14275-3

192 pages. 51 line illus. 6 x 9.

BIOLOGY ■ MATHEMATICS ■ ECONOMICS

PRESS.PRINCETON.EDU

AN INTRODUCTION TO METHODS AND MODELS IN ECOLOGY, EVOLUTION, AND CONSERVATION BIOLOGY

EDITED BY STANTON BRAUDE
& BOBBI S. LOW

This unique textbook introduces undergraduate students to quantitative models and methods in ecology, behavioral ecology, evolutionary biology, and conservation. It explores the core concepts shared by these related fields using tools and practical skills such as experimental design, generating phylogenies, basic statistical inference, and persuasive grant writing. And contributors use examples from their own cutting-edge research, providing diverse views to engage students and broaden their understanding.

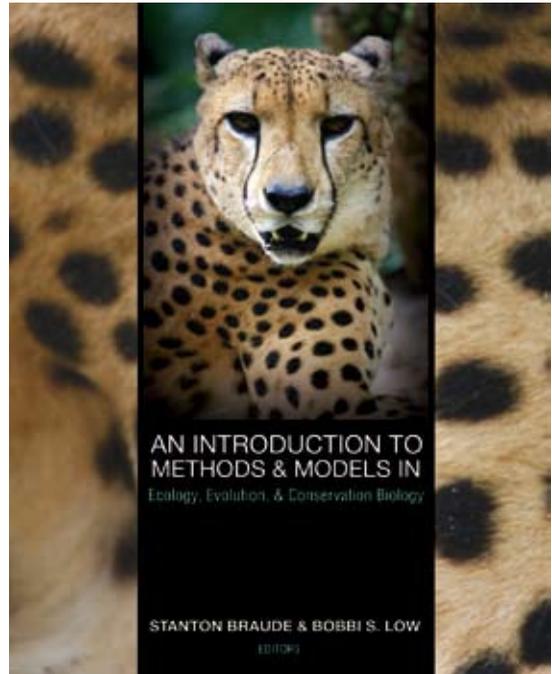
This is the only textbook on the subject featuring a collaborative “active learning” approach that emphasizes hands-on learning. Every chapter has exercises that enable students to work directly with the material at their own pace and in small groups. Each problem includes data presented in a rich array of formats, which students use to answer questions that illustrate patterns, principles, and methods. Topics range from Hardy-Weinberg equilibrium and population effective size to optimal foraging and indices of biodiversity. The book also includes a comprehensive glossary.

In addition to the editors, the contributors are James Beck, Cawas Behram Engineer, John Gaskin, Luke Harmon, Jon Hess, Jason Kolbe, Kenneth H. Kozak, Robert J. Robertson, Emily Silverman, Beth Sparks-Jackson, and Anton Weisstein.

- ◆ Emphasizes hands-on active learning and collaborative problem solving
- ◆ Provides experience with hypothesis testing, experimental design, and scientific reasoning
- ◆ Covers core quantitative models and methods in ecology, behavioral ecology, evolutionary biology, and conservation
- ◆ Turns “discussion sections” into “thinking labs”
- ◆ Restricted instructor’s manual also available

Stanton Braude is lecturer in biology at Washington University in St. Louis. **Bobbi S. Low** is professor of resource ecology at the University of Michigan.

AN INNOVATIVE INTRODUCTION TO
ECOLOGY AND EVOLUTION



“Braude and Low combine approaches and methodologies from ecology, evolution, and behavior, and emphasize quantitative exercises. Most other books that I’m familiar with are largely focused on either ecology or evolution. It makes sense to me to combine all of this material under a single cover. I can’t think of another book like this one.”

—Jonathan Shurin, University of British Columbia

MARCH

Paper \$29.95S

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Cloth \$65.00S

978-0-691-12723-1

288 pages. 72 halftones. 12 line illus.
80 tables. 8 x 10.

BIOLOGY ■ ECOLOGY

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