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A WORLD OF BABIES

Imagined Childcare Guides for Eight Societies

Second edition

Alma Gottlieb
University of Illinois, Urbana-Champaign

and Judy DeLoache
University of Virginia

Should babies sleep alone in cribs, or in bed with parents? Is talking to babies useful, or a waste of time? A World of Babies provides different answers to these and countless other childrearing questions, precisely because diverse communities around the world hold drastically different beliefs about parenting. While celebrating that diversity, the book also explores the challenges that poverty, globalization and violence pose for parents. Fully updated for the twenty-first century, this edition features a new introduction and eight new or revised case studies that directly address contemporary parenting challenges, from China and Peru to Israel and the West Bank. Written as imagined advice manuals to parents, the creative format of this book brings alive a rich body of knowledge that highlights many models of baby-rearing – each shaped by deeply held values and widely varying cultural contexts. Parenthood may never again seem a matter of ‘common sense’.

WHY WILL IT SELL

• Addresses the implications of the most urgent challenges of the twenty-first century – racism, religious intolerance, immigration, poverty, educational inequities and environmental degradation – for the lives of parents and children, and their wider communities, offering a realistic sense of the challenges facing real families living in the real world

• Features a wide variety and diverse set of parenting practices that represent communities across religions (Protestantism, Catholicism, Judaism, Islam, Confucianism and animism) and world areas (North America, South America, Europe, Asia, the Middle East and Africa)

• Case studies range from communities facing desperate poverty to those that enjoy relative prosperity; in all cases, the chapters analyze the economic circumstances of the families, communities and nations for their implications on childrearing agendas, opportunities and constraints

CONTENTS


ADDITIONAL INFORMATION

Level: undergraduate students, graduate students
Contemporary China appears both deceptively familiar and inexplicably different. China is a cauldron of forms of entrepreneurship, social organization, ways of life and governance that are at once new and unique, recognizably Chinese and generically modern. In analyzing and interpreting these developments, Frank N. Pieke adopts a China-centric perspective to move beyond western preoccupations, desires, or fears. Each chapter starts with a key question about China, showing that such questions and assumptions are often based on a misunderstanding or misconstruction of what China is today. Pieke explores twenty-first-century China as a unique kind of neo-socialist society, combining features of state socialism, neoliberal governance, capitalism, and rapid globalization. Understanding this society not only helps us to know China better, but takes us beyond the old dichotomies of West versus East, developed versus developing, tradition versus modernity, democracy versus dictatorship, and capitalism versus socialism.

**CONTENTS**

1. Introduction: knowing China; 2. Why the Communist Party will not fall from power; 3. China’s economy will continue to grow, but not forever; 4. Freedom without universal human rights; 5. From empire to nation, or why Taiwan, Tibet and Xinjiang will not be independent; 6. Not just a Chinese century; 7. Conclusion: the Communist Party and China’s future; References; Index.

**ADDITIONAL INFORMATION**

Level: graduate students, undergraduate students
COOKING CULTURES
Convergent Histories of Food and Feeling

Edited by Ishita Banerjee-Dube
El Colegio de Mexico

This volume offers a study of food, cooking and cuisine in different societies and cultures over different periods of time. It highlights the intimate connections of food, identity, gender, power, personhood and national culture, and also the intricate combination of ingredients, ideas, ideologies and imagination that go into the representation of food and cuisine. Tracking such blends in different societies and continents developed from trans-cultural flows of goods and peoples, colonial encounters, adventure and adaptation, and change in attitude and taste, Cooking Cultures makes a novel argument about convergent histories of the globe brought about by food and cooking.

WHY WILL IT SELL

• Opens a novel panorama of ‘convergent histories’ of large parts of the globe through food, cooking and cuisine
• Includes a rich variety of themes, perspectives and approaches from history, anthropology, literary studies and cultural studies
• A perceptive introduction provides critical reflections on food and identity, gender and personhood, nostalgia and hybridity, and power and creativity in the configurations of cultures through cooking

CONTENTS


ADDITIONAL INFORMATION

Level: academic researchers, graduate students
DECONSTRUCTING COSMOLOGY
Robert H. Sanders
Kapteyn Astronomical Institute, The Netherlands

The advent of sensitive high-resolution observations of the cosmic microwave background radiation and their successful interpretation in terms of the standard cosmological model has led to great confidence in this model’s reality. The prevailing attitude is that we now understand the Universe and need only work out the details. In this book, Sanders traces the development and successes of Lambda-CDM, and argues that this triumphalism may be premature. The model’s two major components, dark energy and dark matter, have the character of the pre-twentieth-century luminiferous aether. While there is astronomical evidence for these hypothetical fluids, their enigmatic properties call into question our assumptions of the universality of locally determined physical law. Sanders explains how modified Newtonian dynamics (MOND) is a significant challenge for cold dark matter. Overall, the message is hopeful: the field of cosmology has not become frozen, and there is much fundamental work ahead for tomorrow’s cosmologists.

WHY WILL IT SELL

- Clearly explains the prevailing Lambda-CDM cosmological paradigm and how it has developed, in particular those observations supporting it and its overall consistency
- Describes the wide range and variety of dark matter search programs to demonstrate the ongoing research efforts of scientists exploring the possible nature of dark matter
- Details the greatest problem for the cosmological paradigm, modified Newtonian dynamics (MOND), and how this challenges it
- Discusses the sociological and philosophical issues posed by the paradigm and the danger of this sociology for the creative process in science

CONTENTS


ADDITIONAL INFORMATION

Level: undergraduate students, general readers

September 2016
247 x 174 mm 200pp 30 b/w illus.
978-1-107-15526-8 Hardback £24.99

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WORLDS FANTASTIC, WORLDS FAMILIAR

Bonnie J. Buratti
Jet Propulsion Laboratory, California Institute of Technology

Join Bonnie J. Buratti, a leading planetary astronomer, on this personal tour of NASA’s latest discoveries. Moving through the Solar System from Mercury, Venus, Mars, past comets and asteroids and the moons of the giant planets, to Pluto, and on to exoplanets, she gives vivid descriptions of landforms that are similar to those found on Earth but that are more fantastic. Sulfur-rich volcanoes and lakes on Io, active gullies on Mars, huge ice plumes and tar-like deposits on the moons of Saturn, hydrocarbon rivers and lakes on Titan, and nitrogen glaciers on Pluto are just some of the marvels that await you. Discover what it’s like to be involved in a major scientific enterprise, with all its pitfalls and excitement, from the perspective of a female scientist. This engaging account of modern space exploration is written for non-specialist readers, from students in high school to enthusiasts of all ages beyond.

CONTENTS


ADDITIONAL INFORMATION

Level: amateurs/enthusiasts, general readers
ANCIENT LIBRARIES

Edited by Jason König
University of St Andrews, Scotland

Katerina Oikonomopoulou
Humboldt-Universität zu Berlin

and Greg Woolf
University of St Andrews, Scotland

The circulation of books was the motor of classical civilization. However, books were both expensive and rare, and so libraries – private and public, royal and civic – played key roles in articulating intellectual life. This collection, written by an international team of scholars, presents a fundamental reassessment of how ancient libraries came into being, how they were organized and how they were used. Drawing on papyrology and archaeology, and on accounts written by those who read and wrote in them, it presents new research on reading cultures, on book collecting and on the origins of monumental library buildings. Many of the traditional stories told about ancient libraries are challenged. Few were really enormous, none were designed as research centres, and occasional conflagrations do not explain the loss of most ancient texts. However, the central place of libraries in Greco-Roman culture emerges more clearly than ever.

September 2016
244 x 170 mm  500 pp  27 b/w illus.
978-1-316-62884-3  Paperback
£24.99

WHY WILL IT SELL

• Gathers together the latest research into libraries from Mesopotamia to the Roman Empire
• Challenges accepted stories on ancient libraries which have not changed from the Middle Ages until the present day
• Sets ancient libraries within a broad cultural context

CONTENTS


ADDITIONAL INFORMATION

Level: academic researchers, graduate students

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Spanning the entire history of the city of Rome from Iron Age village to modern metropolis, this is the first book to take the long view of the Eternal City as an urban organism. Three thousand years old and counting, Rome has thrived almost from the start on self-reference, supplementing the everyday concerns of urban management and planning by projecting its own past onto the city of the moment. This is a study of the urban processes by which Rome’s people and leaders, both as custodians of its illustrious past and as agents of its expansive power, have shaped and conditioned its urban fabric by manipulating geography and organizing space; planning infrastructure; designing and presiding over mythmaking, ritual, and stagecraft; controlling resident and transient populations; and exploiting Rome’s standing as a seat of global power and a religious capital.

CONTENTS

ADDITIONAL INFORMATION
Level: graduate students, undergraduate students
PROSTITUTES AND MATRONS IN THE ROMAN WORLD

Anise K. Strong
Western Michigan University

*Prostitutes and Matrons in the Roman World* is the first substantial account of elite Roman concubines and courtesans. Exploring the blurred line between proper matron and wicked prostitute, it illuminates the lives of sexually promiscuous women like Messalina and Clodia, as well as prostitutes with hearts of gold who saved Rome and their lovers in times of crisis. It also offers insights into the multiple functions of erotic imagery and the circumstances in which prostitutes could play prominent roles in Roman public and religious life. Tracing the evolution of social stereotypes and concepts of virtue and vice in ancient Rome, this volume reveals the range of life choices and sexual activity, beyond the traditional binary depiction of wives or prostitutes, that were available to Roman women.

**CONTENTS**

Introduction; 1. Faithful wives and greedy prostitutes; 2. Good little prostitutes; 3. Powerful concubines and influential courtesans; 4. Matrona as Meretrix; 5. Can you know a *Meretrix* when you see one?; 6. Prostitutes and matrons in the urban landscape; 7. Pious prostitutes; 8. The ‘whore’ label in Western culture; Conclusion. Liminal women.

**ADDITIONAL INFORMATION**

Level: academic researchers, graduate students, undergraduate students

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**WHY WILL IT SELL**

- Proposes a new and more nuanced understanding of the lives of Roman women, especially lower-class women
- Establishes that the ‘whore’ stereotype rests on fear of women’s disloyalty and economic independence, rather than on their sexual activity
- Illuminates the lives of women from a variety of social classes in ancient Rome
Kent Puckett’s Narrative Theory: A Critical Introduction provides an account of a methodology increasingly central to literary studies, film studies, history, psychology, and beyond. In addition to introducing readers to some of the field’s major figures and their ideas, Puckett situates critical and philosophical approaches towards narrative within a longer intellectual history. The book reveals one of narrative theory’s founding claims – that narratives need to be understood in terms of a formal relation between story and discourse, between what they narrate and how they narrate it – both as a necessary methodological distinction and as a problem characteristic of modern thought. Puckett thus shows that narrative theory is not only a powerful descriptive system but also a complex and sometimes ironic form of critique. Narrative Theory offers readers an introduction to the field’s key figures, methods, and ideas, and it also reveals that field as unexpectedly central to the history of ideas.

CONTENTS

ADDITIONAL INFORMATION
Level: undergraduate students, academic researchers, graduate students
LACAN, PSYCHOANALYSIS, AND COMEDY

Edited by Patricia Gherovici
Apres-Coup Psychoanalytic Association, New York

and Manya Steinkoler
Manhattan College, New York

This collection of essays explores laughter, humor, and the comic from a psychoanalytic perspective. Edited by two leading practicing psychoanalysts and with original contributions from Lacanian practitioners and scholars, this cutting-edge volume proposes a paradigm swerve, a Freudian slip on a banana peel. Psychoanalysis has long been associated with tragedy and there is a strong warrant to take up comedy as a more productive model for psychoanalytic practice and critique. Jokes and the comic have not received nearly as much consideration as they deserve given the fundamental role they play in our psychic lives and the way they unite the fields of aesthetics, literature, and psychoanalysis. Lacan, Psychoanalysis, and Comedy addresses this lack and opens up the discussion.

CONTENTS


ADDITIONAL INFORMATION

Level: graduate students, academic researchers
GALILEO’S READING

Crystal Hall
University of Kansas

Galileo (1564–1642) incorporated throughout his work the language of battle, the rhetoric of the epic, and the structure of romance as a means to elicit emotional responses from his readers against his opponents. By turning to the literary as a field for creating knowledge, Galileo delineated a textual space for establishing and validating the identity of the new, idealized philosopher. Galileo's Reading places Galileo in the complete intellectual and academic world in which he operated, bringing together, for example, debates over the nature of floating bodies and Ludovico Ariosto's Orlando furioso, disputes on comets and the literary criticism of Don Quixote, mathematical demonstrations of material strength and Dante's voyage through the afterlife, and the parallels of his feisty note-taking practices with popular comedy of the period.

Contents


Additional Information

Level: academic researchers, graduate students
A HISTORY OF MEXICAN LITERATURE

Edited by Ignacio M. Sánchez Prado
Washington University, St Louis

Anna M. Nogar
University of New Mexico

and José Ramón Ruizánchez Serra
University of Houston

A History of Mexican Literature chronicles a story more than five hundred years in the making, looking at the development of literary culture in Mexico from its indigenous beginnings to the twenty-first century. Featuring a comprehensive introduction that charts the development of a complex canon, this History includes extensive essays that illuminate the cultural and political intricacies of Mexican literature. Organized thematically, these essays survey the multilayered verse and fiction of such diverse writers as Sor Juana Inés de la Cruz, Mariano Azuela, Xavier Villaurrutia, and Octavio Paz. Written by a host of leading scholars, this History also devotes special attention to the lasting significance of colonialism and multiculturalism in Mexican literature. This book is of pivotal importance to the development of Mexican writing and will serve as an invaluable reference for specialists and students alike.

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ADDITIONAL INFORMATION
Level: academic researchers, graduate students

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July 2016
228 x 152 mm 460pp
978-1-107-09980-7 Hardback
£69.99

WHY WILL IT SELL
• Looks at Mexican literature from a wide variety of perspectives, and in new and exciting ways
• Features chapters on subjects generally ignored by competing books
• Concentrates on processes and institutions, and provides a good context for anyone conducting research on Mexican literature
ARABIC THOUGHT BEYOND THE LIBERAL AGE
Towards an Intellectual History of the Nahda

Edited by Jens Hanssen and Max Weiss
University of Toronto and Princeton University, New Jersey

What is the relationship between thought and practice in the domains of language, literature and politics? Is thought the only standard by which to measure intellectual history? How did Arab intellectuals change and affect political, social, cultural and economic developments from the eighteenth to the twentieth centuries? This volume offers a fundamental overhaul and revival of modern Arab intellectual history. Using Hourani’s Arabic Thought in the Liberal Age, 1798–1939 (Cambridge, 1962) as a starting point, it reassesses Arabic cultural production and political thought in the light of current scholarship and extends the analysis beyond Napoleon’s invasion of Egypt and the outbreak of World War II. The chapters offer a mixture of broad-stroke history on the construction of ‘the Muslim world’, and the emergence of the rule of law and constitutionalism in the Ottoman empire, as well as case studies on individual Arab intellectuals that illuminate the transformation of modern Arab thought.

CONTENTS

ADDITIONAL INFORMATION
Level: academic researchers, graduate students
SCHOLARS AND SULTANS IN THE EARLY MODERN OTTOMAN EMPIRE

Abdurrahman Atçıl
Queens College, City University of New York

During the early Ottoman period (1300–1453), scholars in the empire carefully kept their distance from the ruling class. This changed with the capture of Constantinople. From 1453 onwards, the Ottoman government co-opted large groups of scholars, usually over a thousand at a time, and employed them in a hierarchical bureaucracy to fulfill educational, legal and administrative tasks. Abdurrahman Atçıl explores the factors that brought about this gradual transformation of scholars into scholar-bureaucrats, including the deliberate legal, bureaucratic and architectural actions of the Ottoman sultans and their representatives, scholars’ own participation in shaping the rules governing their status and careers, and domestic and international events beyond the control of either group.

CONTENTS


ADDITIONAL INFORMATION

Level: academic researchers, graduate students
The Roman Empire was one of the largest and most enduring in world history. In his new book, distinguished historian William V. Harris sets out to explain, within an eclectic theoretical framework, the waxing and eventual waning of Roman imperial power, together with the Roman community’s internal power structures (political power, social power, gender power and economic power). Effectively integrating analysis with a compelling narrative, he traces this linkage between the external and the internal through three very long periods, and part of the originality of the book is that it almost uniquely considers both the gradual rise of the Roman Empire and its demise as an empire in the fifth and seventh centuries AD. Professor Harris contends that comparing the Romans of these diverse periods sharply illuminates both the growth and the shrinkage of Roman power as well as the Empire’s extraordinary durability.

CONTENTS


ADDITIONAL INFORMATION

Level: academic researchers, graduate students
THE ARABIC PRINT REVOLUTION

Cultural Production and Mass Readership

Ami Ayalon
Tel-Aviv University

In a brief historic moment, printing presses, publishing ventures, a periodical press, circulation networks, and a mass readership came into being all at once in the Middle East, where none had previously existed, with ramifications in every sphere of the community’s life. Among other outcomes, this significant change facilitated the cultural and literary movement known as the Arab ‘nahda’ (‘awakening’). Ayalon’s book offers both students and scholars a critical inquiry into the formative phase of that shift in Arab societies. This comprehensive analysis explores the advent of printing and publishing; the formation of mass readership; and the creation of distribution channels, the vital and often overlooked nexus linking the former two processes. It considers questions of cultural and religious tradition, social norms and relations, and concepts of education, offering a unique presentation of the emerging print culture in the Middle East.

CONTENTS


ADDITIONAL INFORMATION

Level: academic researchers, graduate students
The German Revolution of 1918–1919 was a transformative moment in modern European history. It was both the end of the German Empire and the First World War, as well as the birth of the Weimar Republic, the short-lived democracy that preceded the establishment of the Nazi dictatorship. A time of great political drama, the Revolution saw unprecedented levels of mass mobilisation and political violence, including the ‘Spartacist Uprising’ of January 1919, the murders of Karl Liebknecht and Rosa Luxemburg, and the violent suppression of strikes and the Munich Councils’ Republic. Drawing upon the historiography of the French Revolution, *Founding Weimar* is the first study to place crowds and the politics of the streets at the heart of the Revolution’s history. Carefully argued and meticulously researched, it will appeal to anyone with an interest in the relationship between violence, revolution, and state formation, as well as in the history of modern Germany.

**Contents**

List of illustrations; List of maps; Acknowledgements; Abbreviations; Introduction; 1. La grande peur of November 1918; 2. Karl Liebknecht and the Spartacist threat; 3. Terror and order; 4. The edge of the abyss; 5. The January uprising; 6. Atrocities and remobilisation; 7. Weimar’s order to execute; 8. Death in Munich; Conclusion; Bibliography.

**Additional Information**

Level: academic researchers
THE RUSSIAN REVOLUTION, 1917

Third edition

Rex A. Wade
George Mason University, Virginia

Rex A. Wade presents an essential overview of the Russian Revolution from its beginning in February 1917, through the numerous political crises under Kerensky, to the victory of Lenin and the Bolsheviks in the October Revolution. This thoroughly revised and expanded third edition introduces students to new approaches to the Revolution’s political history and clears away many of the myths and misconceptions that have clouded studies of the period. It also gives due space to the social history of the revolution, incorporating people and places too often left out of the story, including women, national minority peoples, and peasantry front soldiers. The third edition has been updated to include new scholarship on topics such as the coming of the revolution and the beginning of Bolshevik rule, as well as the Revolution’s cultural context. This highly readable book is an invaluable guide to one of the most important events of modern history.

CONTENTS

List of plates; List of maps; Preface; Preface to the second edition; Chronology; 1. The coming of the revolution; 2. The February Revolution; 3. Political realignment and the new political system; 4. The aspirations of Russian society; 5. The peasants and the purposes of revolution; 6. The nationalities: identity and opportunity; 7. The summer of discontents; 8. ‘All Power to the Soviets’; 9. The Bolsheviks take power; 10. The Constituent Assembly and the purposes of power; 11. Conclusions; Notes; Further reading; Index.

ADDITIONAL INFORMATION

Level: undergraduate students, graduate students

New Approaches to European History, 53

Spanish Rights sold
MOBILIZING THE RUSSIAN NATION

Patriotism and Citizenship in the First World War

Melissa Kirschke Stockdale
University of Oklahoma

The First World War had a devastating impact on the Russian state, yet relatively little is known about the ways in which ordinary Russians experienced and viewed this conflict. Melissa Kirschke Stockdale presents the first comprehensive study of the Great War’s influence on Russian notions of national identity and citizenship. Drawing on a vast array of sources, the book examines the patriotic and nationalist organizations which emerged during the war, the role of the Russian Orthodox Church, the press and the intelligentsia in mobilizing Russian society, the war’s impact on the rights of citizens, and the new, democratized ideas of Russian nationhood which emerged both as a result of the war and of the 1917 revolution. Russia’s war experience is revealed as a process that helped consolidate in the Russian population a sense of membership in a great national community, rather than being a test of patriotism which they failed.

October 2016
228 x 152 mm 315pp 25 b/w illus.
978-1-107-09386-7  Hardcover
£64.99

WHY WILL IT SELL

• Helps to answer the question of why soldiers kept fighting – and civilians kept sacrificing – for as long as they did
• Draws widely on letters, diaries and memoirs to incorporate individuals’ voices and stories
• Offers a broader approach to patriotism by examining both the actions and motives of frequently overlooked sectors of the population

CONTENTS


ADDITIONAL INFORMATION

Level: academic researchers
Studies in the Social and Cultural History of Modern Warfare, 45
Every person who encounters or learns another language is faced with the challenge of processing many new words in a short period of time. What are the conditions under which a learner can acquire those words successfully and process them to long-term memory? How do language and memory faculties interact? What role do the senses play in this process? Are factors such as age or individual backgrounds of learners to be considered? Taking the reader on a fascinating journey through the brain to demonstrate how language is processed, Ulf Schütze explains the dynamic environment involved in recording and producing words. The book also discusses how to use information technology, such as Apps, to make the learning of words entertaining and efficient.

**CONTENTS**


**ADDITIONAL INFORMATION**

Level: academic researchers, graduate students
THE STUDY OF LANGUAGE
Sixth edition
George Yule
University of Hawaii, Manoa

This bestselling textbook provides an engaging and user-friendly introduction to the study of language. Assuming no prior knowledge of the subject, Yule presents information in bite-sized sections, clearly explaining the major concepts in linguistics through all the key elements of language. This sixth edition has been revised and updated throughout, with substantial changes made to the chapters on phonetics, grammar and syntax, and the addition of 30 new figures and tables and 80 new study questions. To increase student engagement and to foster problem-solving and critical thinking skills, the book also includes 20 new tasks. An expanded and revised online study guide provides students with further resources, including answers and tutorials for all tasks, while encouraging lively and proactive learning. This is the most fundamental and easy-to-use introduction to the study of language.

NEW TO THIS EDITION
• Chapters on phonetics, grammar and syntax have been thoroughly revised
• Includes many new figures, tables, study questions and tasks
• An expanded and updated study guide is available online

CONTENTS

Additional Resources: http://www.cambridge.org/9781107152991
Expanded study guide, with answers, tutorials and links to further material

ADDITIONAL INFORMATION
Courses: Introduction to Linguistics, Introduction to Language
Departments: Linguistics, English Language
Level: undergraduate students, graduate students
THE SPECTRAL PIANO

From Liszt, Scriabin, and Debussy to the Digital Age

Marilyn Nonken
New York University

The most influential compositional movement of the past fifty years, spectralism was informed by digital technology but also extended the aesthetics of pianist-composers such as Franz Liszt, Alexander Scriabin and Claude Debussy. Students of Olivier Messiaen, such as Tristan Murail and Gérard Grisey, sought to create a cooperative committed to exploring the evolution of timbre in time as a basis for the musical experience. In The Spectral Piano, Marilyn Nonken shows how the spectral attitude was influenced by developments in technology, but also continued a tradition of performative and compositional virtuosity. Nonken explores shared fascinations with the musical experience, which united spectralists with their Romantic and early Modern predecessors. Examining Murail’s Territoires de l’oubli, Jonathan Harvey’s Tombeau de Messiaen, Joshua Fineberg’s Veils and Edmund Campion’s A Complete Wealth of Time, she reveals how spectral concerns relate not only to the past but also to contemporary developments in philosophical aesthetics.

CONTENTS

ADDITIONAL INFORMATION

Level: academic researchers, graduate students
Music since 1900
Understanding Video Game Music develops a musicology of video game music by providing methods and concepts for understanding music in this medium. From the practicalities of investigating the video game as a musical source to the critical perspectives on game music – using examples including Final Fantasy VII, Monkey Island 2, SSX Tricky and Silent Hill – these explorations not only illuminate aspects of game music, but also provide conceptual ideas valuable for future analysis. Music is not a redundant echo of other textual levels of the game, but central to the experience of interacting with video games. As the author likes to describe it, this book is about music for racing a rally car, music for evading zombies, music for dancing, music for solving puzzles, music for saving the Earth from aliens, music for managing a city, music for being a hero; in short, it is about music for playing.

Contents


Additional Information

Level: academic researchers, graduate students
TECHNOLOGY AND THE DIVA

*Sopranos, Opera, and Media from Romanticism to the Digital Age*

Edited by Karen Henson
University of Miami

In *Technology and the Diva*, Karen Henson brings together an interdisciplinary group of scholars to explore the neglected subject of opera and technology. Their essays focus on the operatic soprano and her relationships with technology from the heyday of Romanticism in the 1820s and 1830s to the twenty-first century digital age. The authors pay particular attention to the soprano in her larger than life form, as the ‘diva’, and they consider how her voice and allure have been created by technologies and media including stagecraft and theatrical lighting, journalism, the telephone, sound recording, and visual media from the painted portrait to the high definition simulcast. In doing so, the authors experiment with new approaches to the female singer, to opera in the modern – and post-modern – eras, and to the often controversial subject of opera’s involvement with technology and technological innovation.

**CONTENTS**


**ADDITIONAL INFORMATION**

Level: academic researchers

**Cambridge Studies in Opera**
THE CAMBRIDGE COMPANION TO FILM MUSIC

Edited by Mervyn Cooke
University of Nottingham
and Fiona Ford

This wide-ranging and thought-provoking collection of specially-commissioned essays provides a uniquely comprehensive overview of the many and various ways in which music functions in film soundtracks. Citing examples from a variety of historical periods, genres and film industries – including those of the USA, UK, France, Italy, India and Japan – the book’s contributors are all leading scholars and practitioners in the field. They engage, sometimes provocatively, with numerous stimulating aspects of the history, theory and practice of film music in a series of lively discussions which will appeal as much to newcomers to this fascinating subject as to seasoned film music aficionados. Innovative research and fresh interpretative perspectives are offered alongside practice-based accounts of the film composer’s distinctive art, with examples cited from genres as contrasting as animation, the screen musical, film noir, Hollywood melodrama, the pop music and jazz film, documentary, period drama, horror, science fiction and the Western.

October 2016
247 x 174 mm 345pp
23 b/w illus. 9 tables
26 music examples
978-1-107-09451-2  Hardback
c. £55.00

WHY WILL IT SELL

• Will serve as a stimulating introduction to the field for newcomers, as well as offering fresh research and interpretative angles to those familiar with film music scholarship

• Readers will acquire a comprehensive and holistic view of the subject in which the demands of working in the film industry inform our understanding of its musical practices

• Includes a wide coverage of international film music practices, including the film industries of the USA, UK, Italy, France, India and Japan

CONTENTS


ADDITIONAL INFORMATION

Level: graduate students, general readers
Cambridge Companions to Music

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DESCARTES: MEDITATIONS ON FIRST PHILOSOPHY

With Selections from the Objections and Replies

Second edition

Edited and translated by John Cottingham

University of Reading

Descartes’s Meditations on First Philosophy remains one of the most widely studied works of Western philosophy. This volume is a refreshed and updated edition of John Cottingham’s bestselling 1996 edition, based on his translation in the acclaimed three-volume Cambridge edition of The Philosophical Writings of Descartes. It presents the complete text of Descartes’s central metaphysical masterpiece, the Meditations, in clear, readable modern English, and it offers the reader additional material in a thematic abridgement of the Objections and Replies, providing a deeper understanding of how Descartes developed and clarified his arguments in response to critics. Cottingham also provides an updated introduction, together with a substantially revised bibliography, taking into account recent literature and developments in Descartes studies. The volume will be a vital resource for students reading the Meditations, as well as those studying Descartes and early modern philosophy.

WHY WILL IT SELL

- A revised and updated edition of John Cottingham’s acclaimed 1996 translation
- Features a substantially revised introduction and bibliography, and includes specially selected extracts from the Objections and Replies
- Offers a readable, modern translation, providing students with a clear understanding of the complex philosophical arguments and ideas of the Meditations

CONTENTS

Introductory essay; Introduction; Chronology; Meditations on first philosophy; Selections from the Objections and Replies; Index.

ADDITIONAL INFORMATION

Level: undergraduate students, graduate students

Cambridge Texts in the History of Philosophy

The first edition sold 148,000 copies worldwide
We all know, or think we know, what it means to say that something is 'reasonable' or 'fair', but what exactly are these concepts and how have they evolved and changed over the course of history? In this book, Christopher McMahon explores reasonableness, fairness, and justice as central concepts of the morality of reciprocal concern. He argues that the basis of this morality evolves as history unfolds, so that forms of interaction that might have been morally acceptable in the past are judged unacceptable today. The first part of his study examines the notions of reasonableness and fairness as they are employed in ordinary practical thought, and the second part develops a constructivist theory to explain why and how this part of morality can undergo historical development without arriving at any final form. His book will interest scholars of ethics, political theory, and the history of ideas.


Level: academic researchers, graduate students
REVENGE AND SOCIAL CONFLICT

Kit R. Christensen

Bemidji State University, Minnesota

Revenge has been a subject of concern in most intellectual traditions throughout history, and even when social norms regard it as permissible or even obligatory, it is commonly recognised as being more counterproductive than beneficial. In this book, Kit R. Christensen explores this provocative issue, offering an in-depth account of both the nature of revenge and the causes and consequences of the desire for this kind of retaliatory violence. He then develops a version of eudaimonistic consequentialism to argue that vengeance is never morally justified, and applies this to cases of intergroup violence where the lust for revenge against a vilified ‘Them’ is easily incited and often exploited. His study will interest a wide range of readers in moral philosophy as well as social philosophers, legal theorists, and social/behavioural scientists.

September 2016
228 x 152 mm 288pp
978-1-107-17461-0  Hardback
£64.99

WHY WILL IT SELL

• Explores the nature and definition of revenge, allowing readers to differentiate between vengeance and other kinds of retaliation
• Offers an account of the cultural distinction between revenge as social duty and as ‘only’ an emotional response to perceived wrongful harm
• Offers a critique of ‘Us versus Them’ legitimations of mass violence, including war and terrorist attacks

CONTENTS


ADDITIONAL INFORMATION

Level: academic researchers, graduate students
ELECTIONS IN HARD TIMES
Building Stronger Democracies in the 21st Century

Thomas Edward Flores
George Mason University, Virginia

and Irfan Nooruddin
Georgetown University, Washington DC

Why are ‘free and fair’ elections so often followed by democratic backsliding? Elections in Hard Times answers this critical question, showing why even clean elections fail to advance democracy when held amidst challenging structural conditions. The book opens with a comprehensive, accessible synthesis of fifty years of research on elections and democratization, a resource for experts, policymakers, and students. It then develops a new theory of why elections fail in countries with little democratic history or fiscal resources, and a history of violent conflict. In a series of five empirical chapters, the book leverages an eclectic mix of cross-national data, short case studies and surveys of voters to support this theory. It closes with a careful examination of popular strategies of democracy promotion, evaluating steps designed to support elections. This book will attract academic experts on democratization and elections, students and policymakers.

CONTENTS

ADDITIONAL INFORMATION
Level: graduate students, academic researchers
WHY GOVERN?
Rethinking Demand and Progress in Global Governance

Edited by Amitav Acharya
American University, Washington DC

The system of international cooperation built after World War II around the UN is facing unprecedented challenges. Globalization has magnified the impact of security threats, human rights abuses, mass atrocities, climate change, refugee, trade and financial flows, pandemics, and cyberspace traffic. No single nation, however powerful, can solve them on its own. International cooperation is necessary, yet difficult to build and sustain. Rising powers such as China, India, and Brazil seek greater leadership in international institutions, whose authority and legitimacy are also challenged by a growing number of civil society networks, private entities, and other non-state actors. Against this backdrop, what is the future of global governance? In this book, a group of leading scholars in the field provide a detailed analysis of the challenges and opportunities facing global cooperation. The book offers a comprehensive and authoritative guide for scholars and practitioners interested in multilateralism and global order.

CONTENTS

ADDITIONAL INFORMATION
Level: graduate students, academic researchers
Thomas Hobbes argues that the fear of violent death is the most reliable passion on which to found political society. His role in shaping the contemporary view of religion and honor in the West is pivotal, yet his ideas are famously riddled with contradictions. In this breakthrough study, McClure finds evidence that Hobbes’ apparent inconsistencies are intentional, part of a sophisticated rhetorical strategy meant to make man more afraid of death than he naturally is. Hobbes subtly undermined two of the most powerful manifestations of man’s desire for immortality: the religious belief in an afterlife and the secular desire for eternal fame through honor. McClure argues that Hobbes purposefully stirred up controversy, provoking his adversaries into attacking him and unwittingly spreading his message. This study will appeal to scholars of Hobbes, political theorists, historians of early modern political thought and anyone interested in the genesis of modern Western attitudes toward mortality.

CONTENTS


ADDITIONAL INFORMATION

Level: academic researchers, graduate students, undergraduate students
THE CAMBRIDGE HANDBOOK OF THE PSYCHOLOGY OF PREJUDICE

Edited by Chris G. Sibley
University of Auckland
and Fiona Kate Barlow
University of Queensland

The Cambridge Handbook of the Psychology of Prejudice aims to answer the questions: why is prejudice so persistent? How does it affect people exposed to it? What can we do about it? Providing a comprehensive examination of prejudice from its evolutionary beginnings and environmental influences through to its manifestations and consequences, this Handbook is an essential resource for scholars and students who are passionate about understanding prejudice, social change, collective action, and prejudice reduction. Featuring cutting-edge research from top scholars in the field, the chapters provide an overview of psychological models of prejudice; investigate prejudice in specific domains such as race, religion, gender, and appearance; and develop explicit, evidence-based strategies for disrupting the processes that produce and maintain prejudice. This Handbook challenges researchers and readers to move beyond their comfort zone, and it sets the agenda for future avenues of research, policy, and intervention.

 CONTENTS


ADDITIONAL INFORMATION

Level: academic researchers, graduate students
Cambridge Handbooks in Psychology
Scientists Making a Difference
One Hundred Eminent Behavioral and Brain Scientists Talk about their Most Important Contributions

Edited by Robert J. Sternberg
Cornell University, New York

Susan T. Fiske and Donald J. Foss
Princeton University, New Jersey    University of Houston

Scientists Making a Difference is a fascinating collection of first-person narratives from the top psychological scientists of the modern era. These readable essays highlight the most important contributions to theory and research in psychological science, show how the greatest psychological scientists formulate and think about their work, and illustrate how their ideas develop over time. In particular, the authors address what they consider their most important scientific contribution, how they got the idea, how the idea matters for the world beyond academic psychology, and what they would like to see as the next steps in research. The contributors, who were chosen from an objectively compiled list of the most eminent psychological scientists, provide a broad range of insightful perspectives. This book is essential reading for students, researchers and professionals interested in learning about the development of the biggest ideas in modern psychological science, described firsthand by the scientists themselves.

Contents

Psychology


ADDITIONAL INFORMATION

Level: undergraduate students, graduate students, academic researchers

www.cambridge.org/rights
foreignrights@cambridge.org
Social phobia is a disorder involving an intense fear of being judged by others and it affects the lives of many people. This book takes a critical stance towards the received view of social phobia as a disease of sorts, characterized by abnormal anxiety and caused by an inner mental or physical defective mechanism. Ariel Stravynski adopts an alternative approach to social phobia – as a purposeful interpersonal pattern protective against public humiliation or private rebuff. In this conception, fearfulness is the emotional facet of the socially phobic interpersonal pattern, rather than its driving force. This theoretical framework emphasizing dynamic transactions is articulated in terms of an anthropological psychology and Stravynski argues that social phobia can only be formulated and understood in interpersonal terms. He integrates all available knowledge on social phobia into his proposed framework and exemplifies its application by extending it to the assessment and treatment of the disorder.

Contents


Additional Information

Level: academic researchers, graduate students
Why Will It Sell

- Includes new or updated essays from some of the top people in the world in this field, from such legends as Robert J. Sternberg and Joseph Renzulli to established scholars and rising stars
- Includes applied, practical, and theoretical approaches
- For this topic, there are very few books that offer many different expert perspectives; many chapter authors have their own volumes, and this book gathers all of these voices together

CONTENTS


ADDITIONAL INFORMATION

Level: undergraduate students, graduate students, academic researchers

Current Perspectives in Social and Behavioral Sciences
THE NEUROSCIENCE OF INTELLIGENCE

Richard J. Haier
University of California, Irvine

This book introduces new and provocative neuroscience research that advances our understanding of intelligence and the brain. Compelling evidence shows that genetics plays a more important role than environment as intelligence develops from childhood, and that intelligence test scores correspond strongly to specific features of the brain assessed with neuroimaging. In understandable language, Richard J. Haier explains cutting-edge techniques based on genetics, DNA, and imaging of brain connectivity and function. He dispels common misconceptions, such as the belief that IQ tests are biased or meaningless, and debunks simple interventions alleged to increase intelligence. Readers will learn about the real possibility of dramatically enhancing intelligence based on neuroscience findings and the positive implications this could have for education and social policy. The text also explores potential controversies surrounding neuro-poverty, neuro-socioeconomic status, and the morality of enhancing intelligence for everyone. Online resources, including additional visuals, animations, questions and links, reinforce the material.

CONTENTS

1. What we know about intelligence from the weight of studies; 2. Nature more than nurture: the impact of genetics on intelligence; 3. Peeking inside the living brain: neuroimaging is a game changer for intelligence research; 4. Fifty shades of gray matter: a brain image of intelligence is worth a thousand words; 5. The holy grail: can neuroscience boost intelligence?; 6. As neuroscience advances, what’s next for intelligence research?

ADDITIONAL INFORMATION

Level: undergraduate students, academic researchers, general readers

Cambridge Fundamentals of Neuroscience in Psychology
Why it will sell

- An engaging and wide-ranging cultural, political and intellectual history of the evolution of psychoanalysis
- Offers fresh insights into the profound consequences of the Holocaust and the Nazi past on post-war psychoanalysis
- Presents new readings of radical, anarchist and utopian Freudianism in the 1960s and 1970s

Contents

Why it will sell

- An engaging and wide-ranging cultural, political and intellectual history of the evolution of psychoanalysis
- Offers fresh insights into the profound consequences of the Holocaust and the Nazi past on post-war psychoanalysis
- Presents new readings of radical, anarchist and utopian Freudianism in the 1960s and 1970s

Contents

No one has been able to explain why psychoanalysis was such a powerful emotional and intellectual framework in the Cold War decades – or how it could serve both conservative and subversive ends. In part, the reasons lie in radical revisions to understandings of human nature in the wake of Nazism and the Holocaust. Yet the ascendance of psychoanalysis also involved the new challenges brought by the Vietnam War, the sexual revolution, the new Latin American dictatorships and the emergence of postcolonial cultures. In Cold War Freud, Dagmar Herzog sheds new light on the impact of these epochal transformations on theories of aggression, desire and trauma, and on the tensions between psychoanalysis' possibilities as a theory of human nature and as a toolbox for cultural criticism. She recovers psychoanalysis at its historic zenith and restores it to its place as an essential part of twentieth-century social and intellectual history.

Contents


Additional Information

Level: general readers
THE DIALOGICAL MIND

Common Sense and Ethics

Ivana Marková

University of Stirling

Dialogue has become a central theoretical concept in human and social sciences as well as in professions such as education, health, and psychotherapy. This ‘dialogical turn’ emphasises the importance of social relations and interaction to our behaviour and how we make sense of the world; hence the dialogical mind is the mind in interaction with others – with individuals, groups, institutions, and cultures in historical perspectives. Through a combination of rigorous theoretical work and empirical investigation, Marková presents an ethics of dialogicality as an alternative to the narrow perspective of individualism and cognitivism that has traditionally dominated the field of social psychology. The dialogical perspective, which focuses on interdependencies among the Self and Others, offers a powerful theoretical basis to comprehend, analyse, and discuss complex social issues. Marková considers the implications of dialogical epistemology both in daily life and in professional practices involving problems of communication, care, and therapy.

CONTENTS

Preface and acknowledgements; Figures; Introduction; Part I. ‘Superior’ and ‘Inferior’ Thinking and Knowing: 1. From mythos and irrationality towards logos and rationality; 2. Towards Giambattista Vico’s common sense; 3. Common sense in humanities and social sciences; Conclusion to Part I; Part II. Dialogicality as Epistemology of Daily Life and of Professional Practices: 4. Ethics of the Ego-Alter-Object relations; 5. Epistemic trust; 6. Epistemic responsibility; 7. The dialogical mind in professional practices; Conclusion to Part II; References; Index.

ADDITIONAL INFORMATION

Level: academic researchers, graduate students

Romanian Rights unavailable
THE PSYCHOLOGIST’S COMPANION
A Guide to Professional Success for Students, Teachers, and Researchers

Sixth edition

Robert J. Sternberg and Karin Sternberg
Cornell University, New York

The Psychologist’s Companion, 6th edition is written for students, young professionals, and even mid-career scholars. It is the most comprehensive guide available to both written and oral communication processes for academic psychologists. It covers the topics necessary for career success, including planning papers, writing papers, presenting data, evaluating one’s papers, writing grant proposals, giving talks, finding a book publisher, doing job interviews, and doing media interviews. As the book is in its sixth edition, it is market tested for success in reaching and engaging its readers. Two special (new) pedagogical features are ‘Experience is the best teacher’, which draws on the authors’ personal experiences to help make the book more personalized and exciting to readers, and ‘What’s wrong here’, which gives readers an opportunity for active learning while they read the book. The authors have written the book in a personable and often humorous style that will keep readers engaged.

Contents

Additional Information
Level: undergraduate students, graduate students, academic researchers
DOES WAR MAKE STATES?

Investigations of Charles Tilly’s Historical Sociology

Edited by Lars Bo Kaspersen
University of Copenhagen
and Jeppe Strandsbjerg
Copenhagen Business School

Arising from renewed engagement with Charles Tilly’s canonical work on the relationship between war and state formation, this volume situates Tilly’s work in a broader theoretical landscape and brings it into contemporary debates on state formation theory. Starting with Tilly’s famous dictum ‘war made the state, and the state made war’, the book takes his claim further, examining it from a philosophical, theoretical and conceptual view, and asking whether it is applicable to non-European regions such as the Middle East, South America and China. The authors question Tilly’s narrow view of the causal relationship between warfare and state-making, and they use a positive yet critical approach to suggest alternative ways to explain how the state is formed. Readers will gain a comprehensive view of the most recent developments in the literature on state formation, as well as a more nuanced view of Charles Tilly’s work.

CONTENTS


ADDITIONAL INFORMATION

Level: academic researchers, graduate students
THE JOY OF SCIENCE

Seven Principles for Scientists Seeking Happiness, Harmony, and Success

Roel Snieder and Jen Schneider

Colorado School of Mines  Boise State University, Idaho

We live in an age where working in science or engineering offers tremendous professional opportunities – the pace of scientific development is truly breathtaking. Yet many researchers struggle with the pressures of the fast-paced academic workplace, and struggle to harmonize their work and personal lives. The result can be burnout, exhaustion, and stress on a personal level, and difficulty in recruiting and retaining talented, diverse people to science and engineering. This book, written for graduate students and researchers at all stages of their careers, aims to help scientists by identifying and questioning the core beliefs that drive a culture of overwork, and provides real-world examples and exercises for those wishing to do things differently. Written in a lively narrative style, and including interview excerpts from practicing scientists, social scientists, and engineers, this book serves as a guide for those seeking to practice the seven traits of the joyful scientist.

CONTENTS


ADDITIONAL INFORMATION

Level: graduate students, academic researchers, professionals

WHY WILL IT SELL

• Makes the reader aware of the personal and collective beliefs about what it means to be a successful scientist
• Offers practical suggestions and ideas for leading a balanced life while thriving in a scientific career
• Offers anecdotes from scientists that illustrate and deepen the material covered
• Exercises invite the reader to reflect and explore alternative approaches to living the life of a scientist
MACHINE LEARNING REFINED

Foundations, Algorithms, and Applications

Jeremy Watt, Reza Borhani
and Aggelos Katsaggelos

Northwestern University, Illinois

Providing a unique approach to machine learning, this text contains fresh and intuitive, yet rigorous, descriptions of all fundamental concepts necessary to conduct research, build products, tinker, and play. By prioritizing geometric intuition, algorithmic thinking, and practical real world applications in disciplines including computer vision, natural language processing, economics, neuroscience, recommender systems, physics, and biology, this text provides readers with both a lucid understanding of foundational material as well as the practical tools needed to solve real-world problems. With in-depth Python and MATLAB/OCTAVE-based computational exercises and a complete treatment of cutting edge numerical optimization techniques, this is an essential resource for students and an ideal reference for researchers and practitioners working in machine learning, computer science, electrical engineering, signal processing, and numerical optimization.

CONTENTS


Additional Resources: http://www.cambridge.org/9781107123526
Link to authors’ website which contains chapters for download, MATLAB programs, lecture slides and more

ADDITIONAL INFORMATION

Level: graduate students, professionals
DINOSAURS
A Concise Natural History
Third edition

David E. Fastovsky and David B. Weishampel
University of Rhode Island The Johns Hopkins University

Illustrated by John Sibbick

The ideal textbook for non-science majors, this lively and engaging introduction encourages students to ask questions, assess data critically and think like a scientist. Building on the success of the previous editions, Dinosaurs has been reorganised and extensively rewritten in response to instructor and student feedback. It continues to make science accessible and relevant through its clear explanations and extensive illustrations. Updated to reflect recent fossil discoveries and to include new taxa, the text guides students through the dinosaur groups, emphasising scientific concepts rather than presenting endless facts. It is grounded in the common language of modern evolutionary biology – phylogenetic systematics – so that students examine dinosaurs as professional paleontologists do. The key emerging theme of feathered dinosaurs, and the many implications of feathers, have been integrated throughout the book, highlighted by the inclusion of stunning new photographs in this beautifully illustrated text, now in full colour throughout.

Contents


Additional Resources: http://www.cambridge.org/9781107135376
High-resolution figures, topic question answers, lecture tutorials

Why Will It Sell

• Unlike other introductory books, Dinosaurs is not a list of facts and figures but instead is concept-based, encouraging students to consider dinosaurs as a series of scientific questions to be answered
• Addresses the paleontology of dinosaurs exactly as the professionals in the field do, using phylogenetic systematic methods to reconstruct dinosaur relationships
• Dinosaurs are brought to life in specially commissioned drawings from the acclaimed dinosaur illustrator, John Sibbick
• An accompanying website for instructors contains high-resolution figures, topic question answers and lecture tutorials
Over millions of years in the fossil record, hominin teeth preserve a high-fidelity record of their own growth, development, wear, chemistry and pathology. They yield insights into human evolution that are difficult, if not impossible, to achieve through other sources of fossil or archaeological data. Integrating dental findings with current debates and issues in palaeoanthropology, this book shows how fossil hominin teeth shed light on the origins and evolution of our dietary diversity, extended childhoods, long lifespans, and other fundamental features of human biology. It assesses methods to interpret different lines of dental evidence, providing a critical, practical approach that will appeal to students and researchers in biological anthropology and related fields such as dental science, oral biology, evolutionary biology, and palaeontology.

**CONTENTS**


**ADDITIONAL INFORMATION**

Level: graduate students, undergraduate students
MODERN PROMETHEUS

Editing the Human Genome with Crispr-Cas9

James Kozubek
Massachusetts Institute of Technology and Harvard Medical School

Would you change your genes if you could? As we confront the ‘industrial revolution of the genome’, the recent discoveries of Crispr-Cas9 technologies are offering, for the first time, cheap and effective methods for editing the human genome. This opens up startling new opportunities as well as significant ethical uncertainty. Tracing events across a fifty-year period, from the first gene splicing techniques to the present day, this is the story of gene editing – the science, the impact and the potential. Kozubek weaves together the fascinating stories of many of the scientists involved in the development of gene editing technology. Along the way, he demystifies how the technology really works and provides vivid and thought-provoking reflections on the continuing ethical debate. Ultimately, Kozubek places the debate in its historical and scientific context to consider both what drives scientific discovery and the implications of the ‘commodification’ of life.

CONTENTS


ADDITIONAL INFORMATION

Level: general readers, academic researchers, graduate students

 WHY WILL IT SELL

- Demystifies Crispr, the revolutionary genome editing tool, named Science magazine’s Breakthrough Technology of 2015
- Tells the dramatic, interwoven stories of the scientists and their discoveries that led to the emergence of this transformative technology
- Provides thought-provoking insights into the impact and ethical dilemmas of the Crispr world that we all now live in
In this thought-provoking book, Denis Noble formulates the theory of biological relativity, emphasising that living organisms operate at multiple levels of complexity and must therefore be analysed from a multi-scale, relativistic perspective. Noble explains that all biological processes operate by means of molecular, cellular and organismal networks. The interactive nature of these fundamental processes is at the core of biological relativity and, as such, challenges simplified molecular reductionism. Noble shows that such an integrative view emerges as the necessary consequence of the rigorous application of mathematics to biology. Drawing on his pioneering work in the mathematical physics of biology, he shows that what emerges is a deeply humane picture of the role of the organism in constraining its chemistry, including its genes, to serve the organism as a whole, especially in the interaction with its social environment. This humanistic, holistic approach challenges the common gene-centred view held by many in modern biology and culture.

CONTENTS


ADDITIONAL INFORMATION

Level: general readers, academic researchers
WAVELETS

A Student Guide

Peter Nickolas

University of Wollongong, New South Wales

This text offers an excellent introduction to the mathematical theory of wavelets for senior undergraduate students. Despite the fact that this theory is intrinsically advanced, the author’s elementary approach makes it accessible at the undergraduate level. Beginning with thorough accounts of inner product spaces and Hilbert spaces, the book then shifts its focus to wavelets specifically, starting with the Haar wavelet, broadening to wavelets in general, and culminating in the construction of the Daubechies wavelets. All of this is done using only elementary methods, bypassing the use of the Fourier integral transform. Arguments using the Fourier transform are introduced in the final chapter, and this less elementary approach is used to outline a second and quite different construction of the Daubechies wavelets. The main text of the book is supplemented by more than 200 exercises ranging in difficulty and complexity.

September 2016
228 x 152 mm  280pp
20 b/w illus.  230 exercises
978-1-107-61251-8  Paperback
c. £39.99

WHY WILL IT SELL

• This elementary introduction is accessible to undergraduates
• Provides 230 exercises to test students’ understanding
• It is ideal preparation for more advanced texts

CONTENTS


ADDITIONAL INFORMATION

Level: undergraduate students, graduate students

Australian Mathematical Society Lecture Series, 24
A FORTUNATE UNIVERSE

Life in a Finely Tuned Cosmos

Geraint F. Lewis
and Luke A. Barnes

University of Sydney

Foreword by Brian Schmidt

Australian National University, Canberra

Over the last forty years, scientists have uncovered evidence that if the Universe had been forged with even slightly different properties, life as we know it – and life as we can imagine it – would be impossible. Join us on a journey through how we understand the Universe, from its most basic particles and forces, to planets, stars and galaxies, and back through cosmic history to the birth of the cosmos. Conflicting notions about our place in the Universe are defined, defended and critiqued from scientific, philosophical and religious viewpoints. The authors’ engaging and witty style addresses what fine-tuning might mean for the future of physics and the search for the ultimate laws of nature. Tackling difficult questions and providing thought-provoking answers, this volume challenges us to consider our place in the cosmos, regardless of our initial convictions.

Contents

Foreword; Preface; 1. A conversation on fine-tuning; 2. I’m only human!; 3. Can you feel the force?; 4. Energy and entropy; 5. The Universe is expanding; 6. All bets are off!; 7. A dozen (or so) reactions to fine-tuning; 8. A conversation continued; Further reading; References; Index.

Additional Information

Level: general readers, undergraduate students, amateurs/enthusiasts

Why will it sell

• Has an accessible style, openly presenting the ongoing dialogue about the implications of fine-tuning for science and philosophy – multiple universes, the nature of time and space, the foundations of science and what may be beyond the ultimate laws of nature
• Explains many areas of modern fundamental physics and cosmology in simple, non-mathematical terms suitable for non-scientists – philosophers, theologians, students and the general public
• Gives an accurate and unbiased representation of the questions that can be addressed by fine-tuning, and also the limitations of current science in providing explanations
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