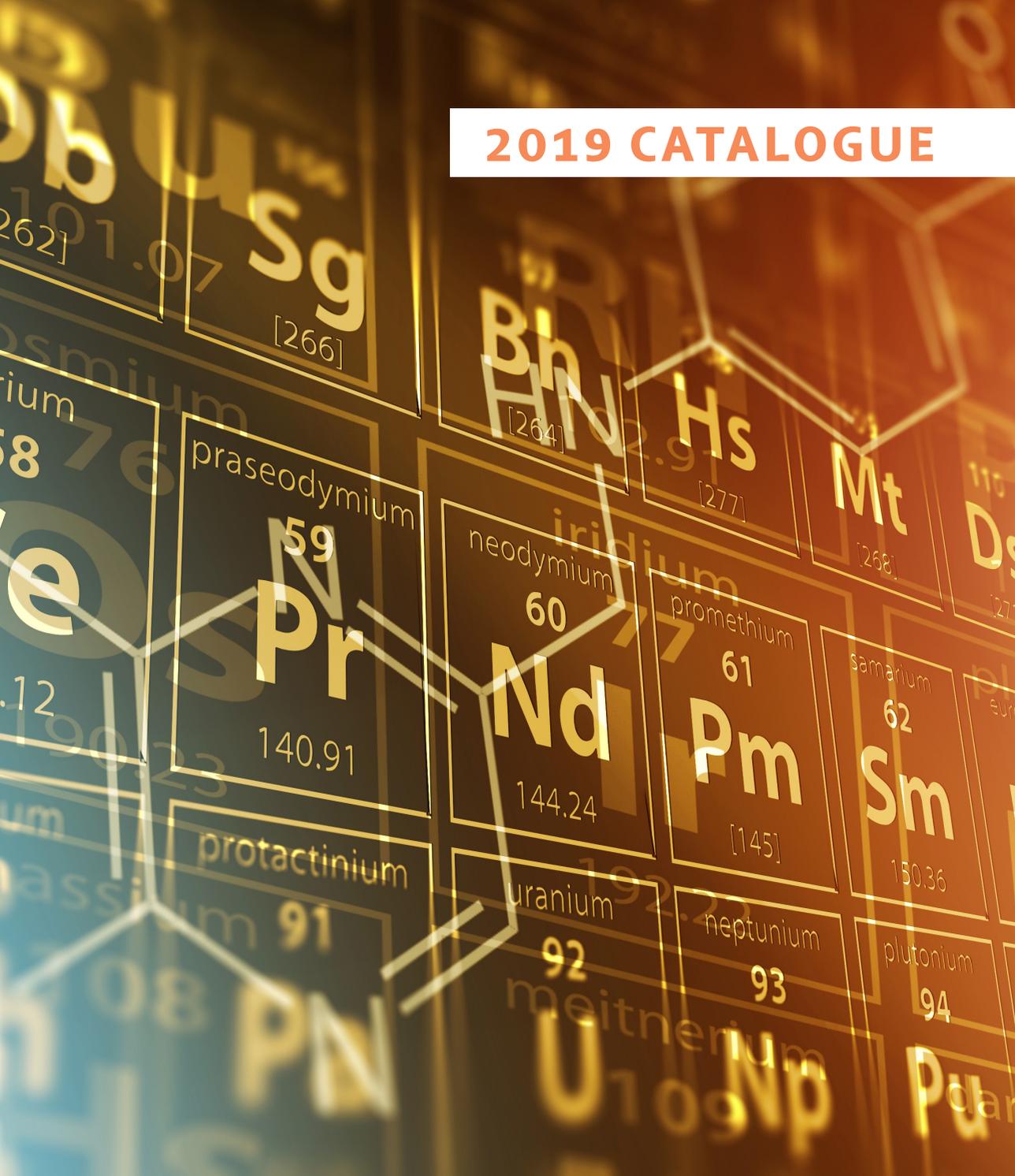


2019 CATALOGUE



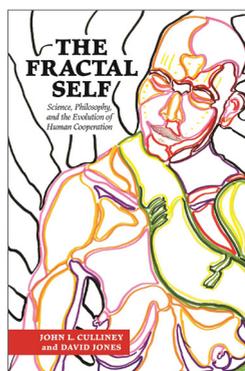
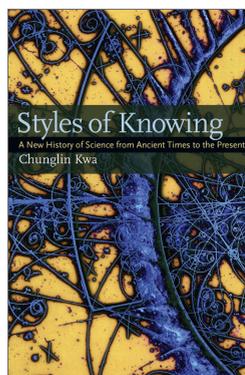
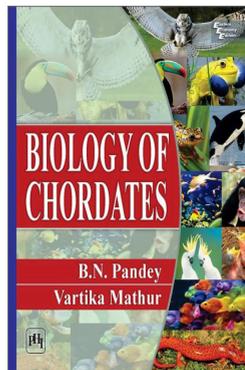
SCIENCE

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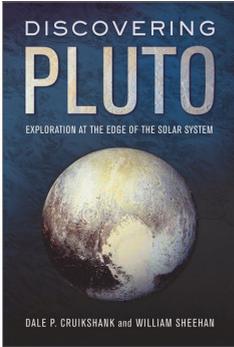


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ASTRONOMY, SPACE & TIME

★ HIGHLIGHT



DISCOVERING PLUTO

Exploration at the Edge of the Solar System

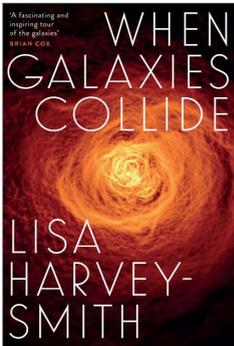
Dale P. Cruikshank & William Sheehan

Jan 2019 504pp,
57 b&w illustrations,
8 colour illustrations, 5 tables
9780816539383 Paperback
£34.50 / €38.00
9780816534319 Hardback
£37.95 / €43.00

Offers an authoritative account of the exploration of Pluto and its moons, from the first inklings of tentative knowledge through the exciting discoveries made during the flyby of the NASA New Horizons research spacecraft in 2015. Dale Cruikshank was a co-investigator on the New Horizons mission; William Sheehan is an historian of the Solar System.

The University of Arizona Press

★ HIGHLIGHT



WHEN GALAXIES COLLIDE

Lisa Harvey-Smith

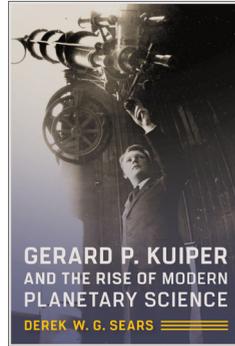
Jul 2018 159pp
9780522873191 Paperback
£23.95 / €26.00

When Galaxies Collide will guide you to look at the night sky afresh. It peers 5.86 billion years into the future to consider the fate of Earth. Will the solution be to live in

space without a planet to call home? Will one of the other 100 billion planets spawn life?

Melbourne University Publishing

The University of Arizona Press



GERARD P. KUIPER AND THE RISE OF MODERN PLANETARY SCIENCE

Derek W. G. Sears

Mar 2019 416pp, 64 b&w illustrations
9780816539000 Hardback
£48.50 / €54.00

Astronomer Gerard P. Kuiper ignored the traditional boundaries of his subject. Using telescopes and the

laboratory, he made the solar system a familiar, intriguing place. Sears shows a brilliant but at times unpopular man who attracted as much dislike as acclaim.

WORLDS IN THE SKY

Planetary Discovery from Earliest Times Through Voyager and Magellan

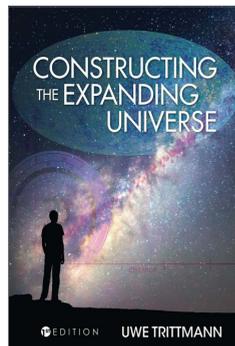
William Sheehan

Apr 2019 243pp
9780816538980 Paperback £32.50 / €36.00

Century Collection

Ever since early stargazers discovered that some heavenly bodies wandered among the others, people have been fascinated by the planets. William Sheehan gives us a history of this long fascination, weaving together scientific history, anecdotes surrounding planetary discoveries, and the personal reflections of an incurable amateur astronomer.

Cognella Academic Publishing



CONSTRUCTING THE EXPANDING UNIVERSE

Uwe Trittman

Nov 2018 460pp
9781516508471 Paperback
£159.00 / €184.00

Provides students with a comprehensive exploration of the history of the evolving cosmos. This book introduces students to fundamental scientific concepts that nurture

the scientist in each and every reader.

University Press of Florida

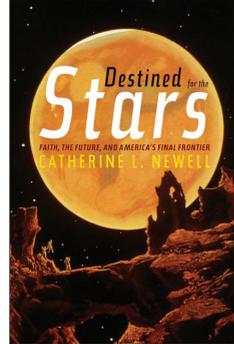
**PICTURING APOLLO 11****Rare Views and Undiscovered Moments**

J.L. Pickering & John Bisney
Apr 2019 272pp,
325 colour and 147 b&w photos
9780813056173 Hardback
£48.50 / €54.00

An unprecedented photographic history of the space mission that defined an era. Through a wealth of unpublicized and recently

discovered images, this book presents new and rarely-seen views of the people, places, and events involved in the pioneering first moon landing of July 20, 1969.

University of Pittsburgh Press

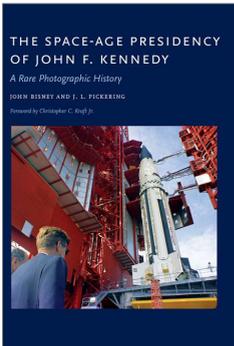
**DESTINED FOR THE STARS****Faith, the Future, and America's Final Frontier**

Catherine L. Newell
May 2019 277pp, 87 colour plates
9780822945567 Hardback
£48.50 / €54.00

Where did humanity get the idea that outer space is a frontier waiting to be explored? *Destined for the Stars* considers the way in which a

scientific idea often owes its genesis to the religious history of the culture from which it came.

University of New Mexico Press

**THE SPACE-AGE PRESIDENCY OF JOHN F. KENNEDY****A Rare Photographic History**

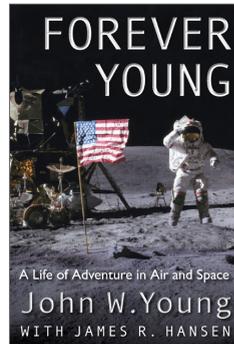
John Bisney & J.L. Pickering
Mar 2019 224pp
9780826358097 Hardback
£48.50 / €54.00

Captures the compelling story of John F. Kennedy's role in advancing the US's space program, set against the Cold

War with the Soviet Union. The stunning collection of history and photographs crafted by authors John Bisney and J.L. Pickering illustrates Kennedy's close association with the race to space during his time in office.

ASTRONOMY, SPACE & TIME BESTSELLERS

University Press of Florida

**FOREVER YOUNG****A Life of Adventure in Air and Space**

John W. Young with James R. Hansen
2013 424pp, 43 b&w photos
9780813049335 Paperback
£24.95 / €28.00

One of the last memoirs written by an early American astronaut and the first by a former chief of the astronaut corps, *Forever Young* is

indispensable to anyone interested in the history of NASA.

Melbourne University Publishing

WHEN GALAXIES COLLIDE

Lisa Harvey-Smith

Jul 2018 159pp

9780522873191 Paperback £23.95 / €26.00

For full details of this title, see page 1.

University of New Mexico Press

MOONSHOTS & SNAPSHOTS OF PROJECT APOLLO

A Rare Photographic History

John Bisney & J.L. Pickering

2015 272pp, 1017 colour photos

9780826355942 Hardback £59.50 / €66.00

In this companion volume to John Bisney and J.L. Pickering's extraordinary book of rare photographs from the Mercury and Gemini missions, the authors present the rest of the Golden Age of US manned space flight with a photographic history of Project Apollo.

SPACESHOTS & SNAPSHOTS OF PROJECTS MERCURY & GEMINI

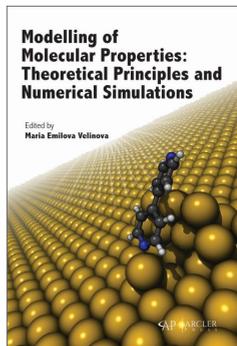
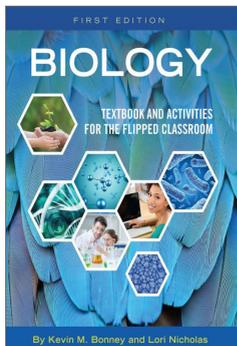
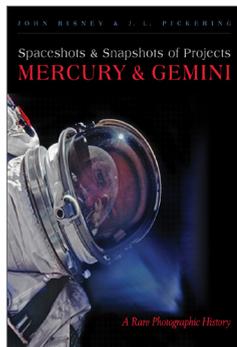
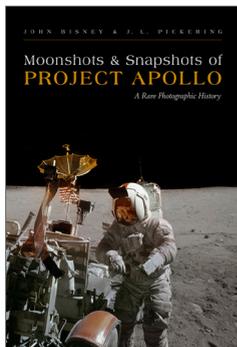
A Rare Photographic History

John Bisney & J.L. Pickering

2015 224pp, 689 colour plates

9780826352613 Hardback £48.50 / €54.00

Tells the story of the people and events of Projects Mercury and Gemini with hundreds of unpublished and rare photographs. Unlike other publications, this history draws from the authors' private library of over one hundred thousand high-quality photos of the early US manned-space programme.



BIOLOGY & LIFE SCIENCES

Arcler Press

MODELLING OF MOLECULAR PROPERTIES

Theoretical Principles and Numerical Simulations

Edited by Maria Emilova Velinova

Dec 2018 277pp

9781773615431 Hardback £155.00 / €179.00

Considers various aspects of modelling of molecular properties, including an extensive historical overview of theoretical principles and numerical simulations in modelling of molecular properties and related issues. The book includes definitions and explanations related to elements of quantum mechanics.

Cognella Academic Publishing

BIOLOGY

Textbook and Activities for the Flipped Classroom

Kevin Bonney & Lori Nicholas

Nov 2018 300pp

9781516508952 Paperback £113.00 / €132.00

Designed to support the flipped classroom method of teaching, *Biology: Textbook and Activities for the Flipped Classroom* introduces students to the fundamentals of biology. Each lesson in the textbook is complemented by a variety of active learning exercises and assessment questions.

Delve Publishing

BACTERIAL CELL BIOLOGY

Edited by Olivia Bouisset

Dec 2018 300pp

9781773611907 Hardback £145.00 / €168.00

Edited by experts, this book includes contributions discussing dimensional organisation of the bacterial cell, various subcellular structures found in bacteria. Providing an integrated collection of contributions from leading researchers and scientists, this book will be of invaluable reference for researchers and of general use to teachers, students, and scientists in bacterial cell biology.

BACTERIAL CELL BIOLOGY

Edited by Stephen Rego

Dec 2018 300pp

9781773615356 Hardback £150.00 / €174.00

A complete reference material for readers interested in bacterial cell biology. Recent technological developments in clinical microbiology are covered to provide readers with a whole sum perspective of the subject.

FLOW CYTOMETRY AND CELL SORTING

Edited by Prerna Pandey & Shiv Sanjeevi

Dec 2018 300pp

9781773613888 Hardback £150.00 / €174.00

Flow cytometry allows a cell population to be analysed. This book describes the technology involved. It covers managing flow cytometry/cell sorting core facilities for emerging researchers, in particular in developmental, cellular, and molecular biology.

FUNGI AND THEIR UTILIZATIONS

Rabia Iftikhar

Dec 2018 300pp

9781773610573 Hardback £145.00 / €168.00

Offers a comprehensive and thoroughly integrated treatment of the biology of the fungi, and deals with the application of fungi and the strategic management of some plant pathogens.

GENE EDITING

An Update

Edited by Prerna Pandey & Shiv Sanjeevi

Dec 2018 277pp

9781773614731 Hardback £150.00 / €174.00

Examines various aspects of gene editing, including an extensive overview about the tools that are used in editing of genes and related concepts. The book includes definitions of genomic editing, gene editing and the Cas system.

GENETIC ENGINEERING

Principles and Advancements

Edited by Vikas Mishra

Dec 2018 277pp

9781773615271 Hardback £150.00 / €174.00

Explores various aspects of genetic engineering, including an extensive overview of genetic engineering and related principles and advances. Coverage includes molecular biology and biotechnology, and a one-step cloning method for the construction of somatic cell gene targeting vectors.

GTPASES IN CELLULAR SIGNALLING

Edited by Prerna Pandey & Shiv Sanjeevi

Dec 2018 285pp

9781773613871 Hardback £150.00 / €174.00

Examines aspects of cellular signaling, including an extensive overview of GTPases and related concepts. The book includes definitions of GTPASES in Signaling, GTPASES in Prokaryotes and the latest trends in the cellular signaling.

MARINE MAMMAL BIOLOGY

An Evolutionary Approach

Pooja Pandya

Dec 2018 300pp

9781773612454 Hardback £150.00 / €174.00

Taking an integrated approach to the biology of marine mammals; this book provides a general introduction to the biology of marine mammals, and an overview of the adaptations that have permitted mammals to succeed in the marine environment. It explores the essential aspects of what makes marine mammals physiologically "different" from terrestrial mammals.

PRINCIPLES OF EPIGENETICS

Edited by Vikas Mishra

Dec 2018 300pp

9781773615295 Hardback £150.00 / €174.00

Examines various dimensions of epigenetics and its relationship to human disease. Part I deals with epigenetics in human diseases; Part II covers yeast epigenetics; Part III covers plant epigenetics.

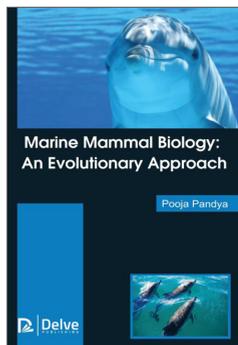
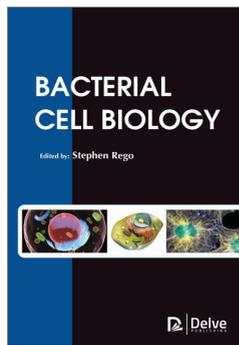
PROTEOGENOMICS

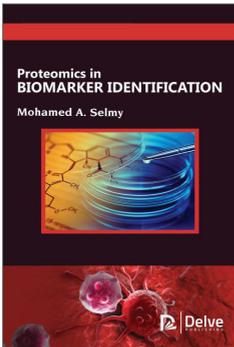
Mohamed A. Selmy

Dec 2018 300pp

9781773611594 Hardback £150.00 / €174.00

Proteins are understood to be the main workhorses in the cell, participating in a wide variety of activities from cell structure to inter- and intra-cellular transport. This work integrates key technologies and identifies areas for further development in proteogenomics.





PROTEOMICS IN BIOMARKER IDENTIFICATION

Mohamed A. Selmy

Dec 2018 300pp
9781773610825 Hardback
£145.00 / €168.00

Packed with methods and techniques, this book presents a standard operating procedure for sample selection, preparation, and storage, as well as data analysis

and modelling. Authoritative and practical, this book will appeal to students of biochemistry, molecular biology and genetics, and all postgraduates and researchers with an interest in genomics and proteomics.

REDOX BIOLOGY AND CELLULAR METABOLISM

Edited by Stephen Rego

Dec 2018 350pp
9781773615370 Hardback £150.00 / €174.00

Examines various aspects of redox biology, including extensive information related to cellular metabolism. The book provides the reader with insights into the development of the cellular metabolism and examines the impact of various enzymes of carbohydrate metabolism on human body.

REMOTE SENSING IN BIOLOGY

An Overview

Edited by Prerna Pandey & Shiv Sanjeevi

Dec 2018 277pp
9781773611921 Hardback £150.00 / €174.00

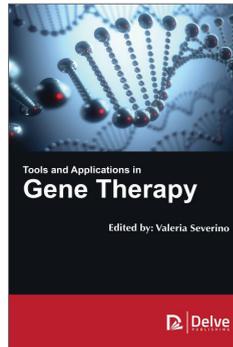
Explains various aspects of remote sensing in biology, describing the benefits and uses of remote sensing in agriculture and forestry. The book includes the definition of remote sensing, application of remote sensing in health, digital technology and its connection with the conservation of nature, and remote sensing in ecology.

STRUCTURAL BIOLOGY OF MEMBRANES

Edited by Stephen Rego

Dec 2018 277pp
9781773615363 Hardback £150.00 / €174.00

Examines various methods to assess membrane structure, so as to understand bacterial membrane dynamics. The book covers methods to assess membrane structure and content, bacterial membrane dynamics, and the permeability of CO₂ through membranes.



TOOLS AND APPLICATIONS IN GENETHERAPY

Edited by Valeria Severino

Dec 2018 277pp
9781773615240 Hardback
£150.00 / €174.00

Provides a detailed description of gene therapy, its progress and advances in non-viral DNA Vectors for Gene Therapy. Various gene delivery technologies are also covered

to offer readers innovative and efficient genome editing.

Morgan & Claypool Publishers

PHYSIOLOGY AND PATHOPHYSIOLOGY OF DIGESTION

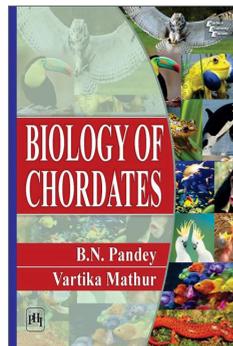
D. Neil Granger, James D. Morris & Peter R. Kviety

Oct 2018 338pp
9781615046966 Paperback £99.95 / €111.00
9781615047901 Hardback £119.00 / €133.00

*Colloquium Series on Integrated Systems Physiology:
From Molecule to Function to Disease*

Provides medical and graduate students, medical and surgical residents, and subspecialty fellows with a comprehensive summary of digestive system physiology and addresses the pathophysiological processes that underlie some GI diseases. The textual approach proceeds by organ, allowing the reader to track the food bolus through the GI tract.

PHI Learning



BIOLOGY OF CHORDATES

B.N. Pandey & Vartika Mathur

Dec 2018 624pp
9789387472136 Paperback
£48.50 / €54.00

Systematically and comprehensively provides a general account of the taxonomical, morphological, anatomical and physiological features of chordates. The text includes a discussion

of a representative genus in each class, and provides knowledge of other important genera.

BIOLOGY & LIFE SCIENCES BESTSELLERS

Northwestern University Press

THE PHENOMENON OF LIFE

Toward a Philosophical Biology

Hans Jonas

2000 328pp

9780810117495 Paperback £37.95 / €42.00

Studies in Phenomenology and Existential Philosophy

Sets forth a systematic philosophy of biological facts, laid out in support of his claim that mind is prefigured throughout organic existence.

Texas A&M University Press

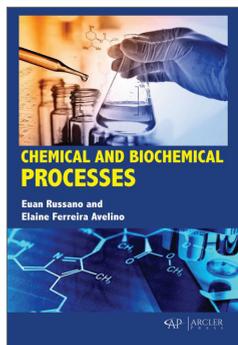
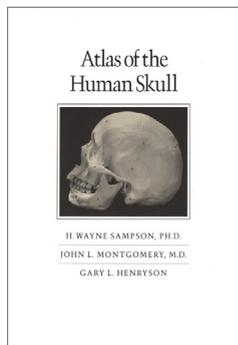
ATLAS OF THE HUMAN SKULL

H. Wayne Sampson, John L. Montgomery & Gary L. Henryson

2006 216pp, illustrations

9780890964880 Paperback £53.95 / €60.00

An easy-to-use comprehensive atlas dedicated solely to the human skull's anatomy. This atlas presents such an extensive coverage of the human skull that even the most inexperienced student can identify its features.



CHEMISTRY

Arcler Press

CHEMICAL AND BIOCHEMICAL PROCESSES

Euan Russano & Elaine Ferreira Avelino

Dec 2018 326pp

9781773614687 Hardback £155.00 / €179.00

Examines various aspects of processes including both chemical and biochemical, along with an extensive overview of concepts and principles. The book includes definitions of systems theory, chemical industrial process, conversion, yield, and costs, types of processes, engineering calculations, and modelling principles.

RECENT TECHNIQUES IN TITRIMETRY

Edited by Maria Emilova Velinova

Dec 2018 353pp

9781773615424 Hardback £155.00 / €179.00

Explains various aspects of Titrimetry with extensive on information Gravimetric titration. Coverage includes volumetric titration and gravimetric titration, isothermal titration calorimetry, and coulometric titration.

IGI Global

APPLICATIONS OF NANOFUID TRANSPORTATION AND HEAT TRANSFER SIMULATION

Mohsen Sheikholeslami

Nov 2018 445pp

9781522575955 Hardback £223.00 / €258.00

Provides emerging research exploring the theoretical and practical aspects and applications of heat and nanofluid transfer. With practical examples and proposed methodology, the book features coverage of topics such as nanoparticles, electric fields, and hydrothermal behaviour.

MV Learning

PRINCIPLES OF INORGANIC CHEMISTRY

Third Edition

G.S. Sodhi

Jan 2019 1,000pp

9789388386937 Paperback £38.00 / €42.00

Provides a comprehensive description of modern inorganic chemistry in a single volume.

CHEMISTRY BESTSELLERS

CSIRO Publishing

CHEMISTRY IN THE MARKETPLACE

Sixth Edition*Ben Selinger & Russell Barrow*

2017 536pp

9781486303328 Paperback £57.50 / €63.00

Provides a fascinating and at times amusing insight into the real world uses of chemicals. This sixth edition provides fresh explanations, fascinating facts and funny anecdotes about the serious science in the products we buy and the resources we use.

The University of Wisconsin Press

CHEMICAL DEMONSTRATIONS*Bassam Z. Shakhshiri*

Using full-colour illustrations, these volumes provide meticulous instructions for safely demonstrating colourful phenomena and illustrating scientific principles.

Volume One, A Handbook for Teachers of Chemistry

1982 368pp, illustrations

9780299088903 Hardback £39.95 / €45.00

Volume Two, A Handbook for Teachers of Chemistry

1986 352pp, illustrations

9780299101305 Hardback £39.95 / €45.00

Volume Three, A Handbook for Teachers of Chemistry

1989 416pp, illustrations

9780299119508 Paperback £39.95 / €45.00

Volume Four, A Handbook for Teachers of Chemistry

1992 288pp, illustrations

9780299128609 Hardback £39.95 / €45.00

Volume Five, A Handbook for Teachers of Chemistry

2011 408pp, illustrations

9780299226503 Hardback £45.50 / €50.00

ENVIRONMENTAL SCIENCE

Arcler Press

ENVIRONMENTAL PHYSICS

Edited by Nelson Bolivar

Dec 2018 285pp

9781773614229 Hardback £155.00 / €179.00

Examines various aspects of physics in the context of the environment, including an extensive historical overview of environmental science and related concepts. The book includes definitions of radiant energy, heat momentum and mass.

Delve Publishing

CLIMATE CHANGE ADAPTATION

Judith Rosales

Dec 2018 300pp

9781773614106 Hardback £150.00 / €174.00

Examines various aspects of climate change, including an extensive historical overview. The book includes definitions of mitigation and adaptation, social learning and social organisation in adaptation, and the relation between climate change adaptation and agriculture.

CLIMATE CHANGE AND WATER RESOURCES

Judith Rosales

Dec 2018 277pp

9781773613918 Hardback £150.00 / €174.00

Examines various aspects of climate change, including an extensive historical overview of climate change and water resources and related issues. Coverage in the book includes the impacts of climate changes and water scarcity, water resources management, and climate change and rainfall variability.

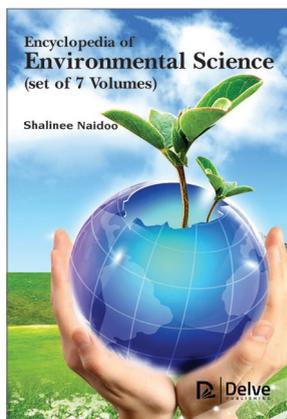
ECOLOGICAL BOUNDARY INTERACTIONS

Daniel Dela Torre

Dec 2018 300pp

9781773612799 Hardback £145.00 / €168.00

Boundaries are ubiquitous across a wide range of ecological systems and spatial scales. However, most research on boundaries has been scale and system specific. This volume investigates how management systems and their dynamics can improve the stewardship of selected ecosystems.



ENCYCLOPEDIA OF ENVIRONMENTAL SCIENCE

Shalinee Naidoo

Dec 2018

9781773615721 Hardback £1052.00 / €1213.00

The seven-volume *Encyclopedia of Environmental Science* includes comprehensive information related to environmental science which features cutting-edge information that highlight recent and ongoing developments and research within environmental science.

Volume 1, Ecological Concepts and Environmental Science

Shalinee Naidoo

Dec 2018 300pp

9781773613086 Hardback £150.00 / €174.00

This volume presents a variety of scientific ecological issues and uses these to examine a range of environmental problems while considering potential engineering, scientific, and managerial solutions.

Volume 2, Management of Ecosystems

Shalinee Naidoo

Dec 2018 300pp

9781773613093 Hardback £150.00 / €174.00

Offers important insights and a unique perspective on ecosystems, and aims to maintain healthy and resilient forest ecosystems by focusing on a reduction of differences between natural and managed landscapes to ensure long-term maintenance of ecosystem functions and thereby retaining biodiversity.

Volume 3, Biodiversity and Ecological Assessments

Shalinee Naidoo

Dec 2018 300pp

9781773613109 Hardback £150.00 / €174.00

This timely volume examines the impact of the loss of biodiversity and ecotoxicology. It brings together the latest information on the rapid advances and developments in the field of biological diversity, habitats and climate.

Volume 4, Microbiology of Wetlands

Shalinee Naidoo

Dec 2018 300pp

9781773613116 Hardback £150.00 / €174.00

This volume contributes to the widespread information on the microbiology of wetlands and discusses the gaps therein to be assessed in future wetland research.

Volume 5, Integrated Water Management

Shalinee Naidoo

Dec 2018 300pp

9781773613123 Hardback £150.00 / €174.00

Presenting a rationale for Integrated Water Resources Management; this volume brings together both the different environmental problems that affect the very different ecosystems and the main methodologies able to face the problem of IWM.

Volume 6, Social Aspects of Water Management

Shalinee Naidoo

Dec 2018 300pp

9781773613130 Hardback £150.00 / €174.00

This volume focuses on increased awareness of the human dimension, the role of women, environmental protection, sustainability and food security aspects in achieving sustainable water management.

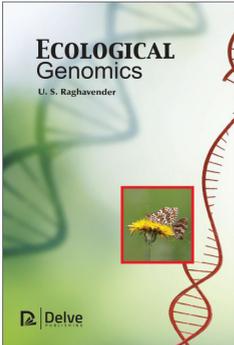
Volume 7, Environmental Economics

Shalinee Naidoo

Dec 2018 300pp

9781773613147 Hardback £150.00 / €174.00

This volume is packed with novel approaches to the formulation of environmental policy by establishing the links between the environment and the economy, such as renewable energy, construction of hydroelectric power plants or transnational pipelines, and pollution control measures.



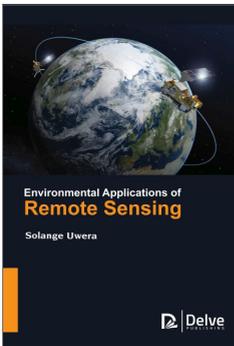
ECOLOGICAL GENOMICS

U.S. Raghavender

Dec 2018 300pp
9781773613680 Hardback
£150.00 / €174.00

Examines various aspects of ecological genomics, including an extensive historical overview of genomics and related concepts. The book includes definitions of genomics, biophytron

bioinformatics analysis and python for processing ecological data.



ENVIRONMENTAL APPLICATIONS OF REMOTE SENSING

Solange Uwera

Dec 2018 285pp
9781773614083 Hardback
£150.00 / €174.00

Examines various aspects of remote sensing, including an extensive historical overview of remote sensing of the environment. The book includes definitions,

preliminary data, and biomass estimation with remote sensing.

ENVIRONMENTAL PLANNING FOR OCEANS AND COASTS

Judith Rosales

Dec 2018 277pp
9781773614441 Hardback £150.00 / €174.00

Examines various aspects of environmental planning, including an extensive conceptual overview of oceans and coasts. The book includes definitions of marine and coastal ecosystems, and provides the reader with insights into historical development so as to understand why they necessitate environmental planning.

OIL POLLUTION AND MARINE ECOLOGY

Anjanette S. Tadana

Dec 2018
9781773614137 Hardback £150.00 / €174.00

Evaluates various aspects of marine ecology and oil pollution. The book includes an extensive description on marine oil pollution, marine ecology diversity and various institutional frameworks of oil pollution on marine ecology.

University of Michigan Press

GREAT LAKES ROCKS

4 Billion Years of Geologic History in the Great Lakes Region

Stephen E. Kesler

May 2019 360pp, 100 illustrations
9780472053803 Paperback £25.50 / €29.00

The geologic story of the Great Lakes region is one of the most remarkable of any place on Earth. *Great Lakes Rocks* takes readers on this fascinating journey through geologic history. Other discussed topics include natural hazards that are geologic in nature, information on rocks, minerals, and ancient life seen in fossils.

University of Michigan Regional

MV Learning

★ BESTSELLER

ENVIRONMENTAL SCIENCE AND MANAGEMENT

Abhijit Mallick

2015 272pp
9788130932101 Paperback £23.50 / €26.00

An informative guide to different aspects of the environment. Topics include ecology, atmosphere, noise pollution, air pollution control, sustainable development, biodiversity, greenhouse effect, solid waste management, and population and growth.

University of Pittsburgh Press

INEVITABLY TOXIC

Historical Perspectives on Contamination, Exposure, and Expertise

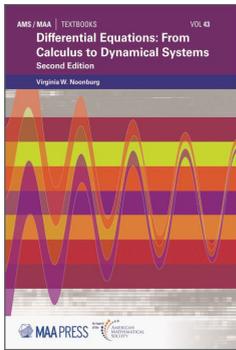
Edited by Brinda Sarathy, Vivien Hamilton & Janet Farrell Brodie

Oct 2018 280pp, 19 b&w illustrations
9780822945314 Hardback £37.95 / €42.00

Why are we warned about some toxic spaces and not others? The essays in this volume consider the exposure of bodies in four countries in the form of nuclear radiation, industrial waste, pesticides and future biological warfare. Research shows that appeals to uncertainty have led to social inaction even when evidence stares us in the face.

MATHEMATICS

★ HIGHLIGHT



DIFFERENTIAL EQUATIONS: FROM CALCULUS TO DYNAMICAL SYSTEMS

Second Edition

Virginia W. Noonburg

Feb 2019 402pp

9781470444006 Hardback

£74.50 / €83.00

MAA Textbooks, Vol. 43

A thoroughly modern textbook for the sophomore-level differential equations course. The examples and exercises emphasize modelling not only in engineering and physics but also in applied mathematics and biology. There is an early introduction to numerical methods and, throughout, a strong emphasis on the qualitative viewpoint of dynamical systems. Bifurcations and analysis of parameter variation is a persistent theme.

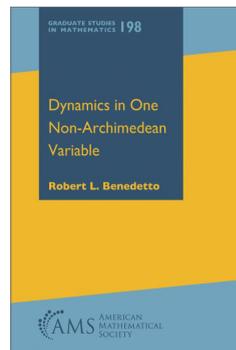
Presuming previous exposure to only two semesters of calculus, necessary linear algebra is developed as needed. The exposition is very clear and inviting. The book would serve well for use in a flipped-classroom pedagogical approach or for self-study for an advanced undergraduate or beginning graduate student.

This second edition of Noonburg's best-selling textbook includes two new chapters on partial differential equations, making the book usable for a two-semester sequence in differential equations.

MAA Press

American Mathematical Society

★ HIGHLIGHT



DYNAMICS IN ONE NON-ARCHIMEDEAN VARIABLE

Robert L. Benedetto

Mar 2019 418pp

9781470446888 Hardback

£93.95 / €105.00

Graduate Studies in Mathematics, Vol. 198

The theory of complex dynamics in one variable, initiated by Fatou and Julia in the early twentieth century, concerns the iteration of a rational function acting on the Riemann sphere. Building on foundational investigations of p -adic dynamics in the late twentieth century, dynamics in one non-archimedean variable is the analogous theory over non-archimedean fields rather than over the complex numbers. It is also an essential component of the number-theoretic study of arithmetic dynamics.

This textbook presents the fundamentals of non-archimedean dynamics, including a unified exposition of Rivera-Letelier's classification theorem, as well as results on wandering domains, repelling periodic points, and equilibrium measures. The Berkovich projective line, which is the appropriate setting for the associated Fatou and Julia sets, is developed from the ground up, as are relevant results in non-archimedean analysis.

American Mathematical Society

American Mathematical Society

CALCULUS IN 3D

Geometry, Vectors, and Multivariate Calculus

Zbigniew Nitecki

Nov 2018 405pp

9781470443603 Hardback £78.50 / €87.00

MAA Textbooks, Vol. 40



An accessible, well-written textbook for an honours course in multivariable calculus for mathematically strong first- or second-year university students. The treatment carefully balances theoretical rigour, the development of student facility in the procedures and algorithms, and inculcating intuition into underlying geometric principles.

MAA Press

THE CLASSIFICATION OF THE FINITE SIMPLE GROUPS, NUMBER 8

Part III, Chapters 12-17: The Generic Case, Completed

Daniel Gorenstein, Richard Lyons & Ronald Solomon

Jan 2019 488pp

9781470441890 Hardback £120.00 / €134.00

Mathematical Surveys and Monographs, Vol. 40, No.8

This book completes a trilogy (Numbers 5, 7, and 8) of the series *The Classification of the Finite Simple Groups* treating the generic case of the classification of the finite simple groups. In conjunction with Numbers 4 and 6, it allows us to reach the completion of the proof of Theorem O.

FIGURING FIBERS

Edited by Carolyn Yackel & Sarah-Marie Belcastro

Dec 2018 232pp

9781470429317 Hardback £39.95 / €44.00

Pick up this book and dive into one of eight chapters relating mathematics to fiber arts! Amazing exposition transports any interested person on a mathematical exploration that is rigorous enough to capture the hearts of mathematicians.

FINDING ELLIPSES

What Blaschke Products, Poncelet's Theorem, and the Numerical Range Know about Each Other

Ulrich Daepf et al

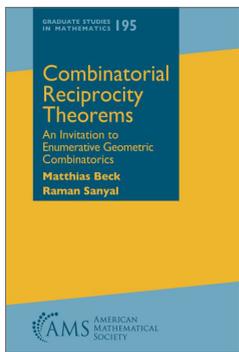
Oct 2018 264pp

9781470443832 Hardback £62.50 / €70.00

Carus Mathematical Monographs, Vol. 34

Mathematicians delight in finding surprising connections between seemingly disparate areas of mathematics. *Finding Ellipses* is a delight-filled romp across a three-way unexpected connection between complex analysis, linear algebra, and projective geometry.

MAA Press



COMBINATORIAL RECIPROcity THEOREMS



An Invitation to Enumerative Geometric Combinatorics

Matthias Beck & Raman Sanyal

Dec 2018 314pp

9781470422004 Hardback

£72.50 / €81.00

Graduate Studies in Mathematics, Vol. 195

Using the combinatorial reciprocity theorems as a leitmotif, this book unfolds central ideas and techniques in enumerative and geometric combinatorics. Written in a friendly writing style, this is an accessible graduate textbook with almost 300 exercises, numerous illustrations, and pointers to the research literature.

DIFFERENTIAL EQUATIONS: FROM CALCULUS TO DYNAMICAL SYSTEMS



Second Edition

Virginia W. Noonburg

Feb 2019 402pp

9781470444006 Hardback £74.50 / €83.00

MAA Textbooks, Vol. 43

For full details of this title, see page 10.

MAA Press

GEOMETRY

The Line and the Circle

Maureen T. Carroll & Elyn Rykken

Jan 2019 480pp

9781470448431 Hardback £107.00 / €120.00

MAA Textbooks, Vol. 44

Starting with *Euclid's Elements*, this book connects topics in Euclidean and non-Euclidean geometry in an intentional and meaningful way, with historical context. The line and the circle are the principal characters driving the narrative. In every geometry considered these two objects are analysed and highlighted.

MAA Press



HARMONIC ANALYSIS

Smooth and Non-smooth

Palle E.T. Jorgensen

Dec 2018 271pp

9781470448806 Paperback £51.50 / €57.00

CBMS Regional Conference Series in Mathematics, Vol. 128

In this book on smooth and non-smooth harmonic analysis, the notion of dual variables is adapted to fractals. In addition to harmonic analysis via Fourier duality, the author also covers multiresolution wavelet approaches as well as a third tool, namely, L_2 spaces derived from appropriate Gaussian processes.

A co-publication of the AMS and CBMS

DYNAMICS IN ONE NON-ARCHIMEDEAN VARIABLE



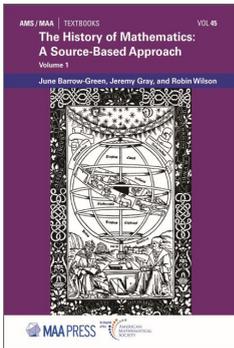
Robert L. Benedetto

Mar 2019 418pp

9781470446888 Hardback £93.95 / €105.00

Graduate Studies in Mathematics, Vol. 198

For full details of this title, see page 10.



THE HISTORY OF MATHEMATICS: A SOURCE-BASED APPROACH



Volume 1

June Barrow-Green, Jeremy Gray & Robin Wilson

Jan 2019 496pp
9781470443528 Hardback
£88.50 / €98.00

MAA Textbooks, Vol. 45

Provides a comprehensive

history of the development of mathematics. This, the first volume of the two-volume set, takes readers from the beginning of counting in prehistory to 1600 and the threshold of the discovery of calculus. It is notable for the extensive engagement with original - primary and secondary - source material.

MAA Press

A HISTORY OF MATHEMATICS IN THE UNITED STATES AND CANADA

Volume 1: 1492-1930

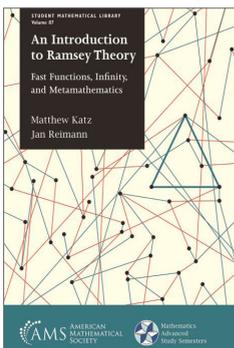
David E. Zitarelli

Dec 2018 768pp
9781470448295 Hardback £118.00 / €132.00

Spectrum, Vol. 94

Offers a comprehensive history of the development of mathematics in the US and Canada. This first volume of a two-volume work takes the reader from the European encounters with North America in the fifteenth century up to the emergence of the United States as a world leader in mathematics in the 1930s.

MAA Press



AN INTRODUCTION TO RAMSEY THEORY

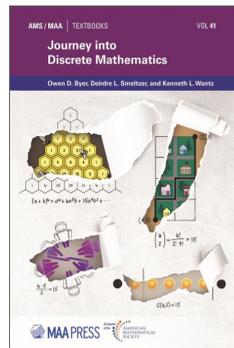
Fast Functions, Infinity, and Metamathematics
Matthew Katz & Jan Reimann

Dec 2018 207pp
9781470442903 Paperback
£51.50 / €57.00

Student Mathematical Library, Vol. 87

Takes the reader on a journey through Ramsey theory, from graph

theory and combinatorics to set theory to logic and metamathematics. The book develops two basic principles of Ramsey theory: many combinatorial properties persist under partitions, but to witness this persistence, one has to start with very large objects.



JOURNEY INTO DISCRETE MATHEMATICS



Owen D. Byer,
Deirdre L. Smeltzer &
Kenneth L. Wantz
Dec 2018 389pp
9781470446963 Hardback
£74.50 / €83.00
MAA Textbooks, Vol. 41

Designed for use in a first course in mathematical abstraction for early-career undergraduate mathematics majors. The important ideas of discrete mathematics are included - logic, sets, proof writing, relations, counting, number theory, and graph theory - in a manner that promotes development of a mathematical mindset.



LINEAR ALGEBRA Concepts and Applications



Przemyslaw Bogacki
Mar 2019 383pp
9781470443849 Hardback
£97.95 / €109.00
MAA Textbooks, Vol. 47

This textbook is designed to be used in a first linear algebra course taken by mathematics and science majors. It provides a complete coverage of core

linear algebra topics, including vectors and matrices, systems of linear equations, general vector spaces, linear transformations, eigenvalues, and eigenvectors. All results are carefully, clearly, and rigorously proven. The exposition is very accessible.

MAA Press

LINEAR ALGEBRA AND GEOMETRY



Al Cuoco et al
Apr 2019 597pp
9781470443504 Hardback £97.95 / €109.00
MAA Textbooks, Vol. 46

Linear Algebra and Geometry is organized around carefully sequenced problems that help students build both the tools and the habits that provide a solid basis for further study in mathematics. Requiring only high school algebra, it uses elementary geometry to build the beautiful edifice of results and methods that make linear algebra such an important field.

MAA Press

LIFE ON THE INFINITE FARM

Richard Evan Schwartz

Oct 2018 176pp

9781470447366 Paperback £24.95 / €28.00

Mathematician and award-winning children's book author Richard Schwartz teaches about infinity and curved space through stories of whimsical farm animals. Children as young as five will enjoy the lighthearted illustrations and the fanciful approach to infinity. Older students will appreciate the more advanced ideas and geometric references.

LIMITLESS MINDS

Interviews with Mathematicians

Anthony Bonato

Dec 2018 155pp

9781470447915 Paperback £28.95 / €32.00

Every mathematician is a person with a story. *Limitless Minds* tells those stories in an engaging way by featuring interviews with twelve leading mathematicians. The book, written in an accessible style and enriched by dozens of images, offers a rare insight into the minds of mathematicians, provided in their own words.

MATH CIRCLE BY THE BAY

Topics for Grades 1-5

Laura Givental, Maria Nemirovskaya & Ilya Zakharevich

Dec 2018 179pp

9781470447854 Paperback £24.95 / €28.00

MSRI Mathematical Circles Library, Vol. 21

Introduces children to combinatorics, Fibonacci numbers, Pascal's triangle, and the notion of area, among other things. The authors chose topics with deep mathematical context that are part of the continuously developing stream of mathematical thought.

A co-publication of the AMS and the Mathematical Sciences Research Institute

MATHEMATICS: RHYME AND REASON

Mel Currie

Dec 2018 178pp

9781470447960 Paperback £40.95 / €45.00

MSRI Mathematical Circles Library, Vol. 22

Offers an exploration of the aesthetic value of mathematics and the culture of the mathematics community. The book introduces budding mathematicians of all ages to mathematical ways of thinking through a series of chapters that mix episodes from the author's life with explanations of intriguing mathematical concepts.

A co-publication of the AMS and the Mathematical Sciences Research Institute

NEVER A DULL MOMENT

Hassler Whitney, Mathematics Pioneer

Keith Kendig

Nov 2018 381pp

9781470448288 Paperback £59.50 / €66.00

Spectrum, Vol. 93

Hassler Whitney was a giant of twentieth-century mathematics. This biography paints a picture of him and includes dozens of revealing anecdotes. Mathematically, he had a rare detector that went off whenever he spotted a piece of mathematical gold, and he would then draw countless pictures, gradually forging a path from hunch to proof.

MAA Press

NILPOTENT STRUCTURES IN ERGODIC THEORY

Bernard Host & Bryna Kra

Jan 2019 427pp

9781470447809 Hardback £120.00 / €134.00

Mathematical Surveys and Monographs, Vol. 236

Nilsystems play a key role in the structure theory of measure preserving systems, arising as the natural objects that describe the behaviour of multiple ergodic averages. This book provides a comprehensive treatment of their role in ergodic theory.

SINGULARITIES IN GENERIC GEOMETRY

Edited by Shyuichi Izumiya et al

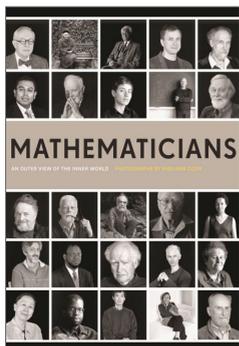
Dec 2018 486pp

9784864970556 Hardback £95.95 / €107.00

Advanced Studies in Pure Mathematics, Vol. 78

Contains the proceedings of the workshop "Singularities in Generic Geometry and Applications-Kobe-Kyoto 2015 (Valencia IV)", held in June 2015. The volume consists of fifteen original research articles and three survey articles by specialists in singularity theory and its applications to differential topology and differential geometry.

A publication of the Mathematical Society of Japan



MATHEMATICIANS

An Outer View of the Inner World

Mariana Cook

Dec 2018 199pp

9781470448387 Paperback

£34.95 / €39.00

Offers a remarkable collection of ninety-two photographic portraits, featuring a selection of the most impressive mathematicians of our time.

Acclaimed photographer

Mariana Cook captures the exuberance and passion of these brilliant thinkers. The superb images are accompanied by autobiographical texts.

TOPOLOGICAL RECURSION AND ITS INFLUENCE IN ANALYSIS, GEOMETRY, AND TOPOLOGY

Edited by Chiu-Chu Melissa Liu & Motohico Mulase

Dec 2018 561pp

9781470435417 Hardback £131.00 / €146.00

Proceedings of Symposia in Pure Mathematics, Vol. 100

Contains the proceedings of the 2016 AMS von Neumann Symposium on Topological Recursion and its Influence in Analysis, Geometry, and Topology, held in 2016. The papers present a snapshot of rapid and rich developments in the emerging research field known as topological recursion.

TOPOLOGY NOW!

Robert Messer & Philip Straffin

Dec 2018 240pp

9781470447816 Hardback £61.50 / €68.00

MAA Textbooks, Vol. 42

Cultivates the intuitive ideas of continuity, convergence, and connectedness so students can quickly delve into knot theory, the topology of surfaces and three-dimensional manifolds, fixed points and elementary homotopy theory. The fundamental concepts of point-set topology appear at the end of the book.

MAA Press



A TOUR OF REPRESENTATION THEORY

Martin Lorenz

Oct 2018 654pp

9781470436803 Hardback £92.95 / €104.00

Graduate Studies in Mathematics, Vol. 193

Offers an introduction to four different flavours of representation theory: representations of algebras, groups, Lie algebras, and Hopf algebras. A separate part of the book is devoted to each of these areas and they are all treated in sufficient depth to enable the reader to pursue research in representation theory.



WEAK CONVERGENCE OF MEASURES

Vladimir I. Bogachev

Dec 2018 286pp

9781470447380 Hardback £120.00 / €134.00

Mathematical Surveys and Monographs, Vol. 234

Provides a thorough exposition of the main concepts and results related to various types of convergence of measures arising in measure theory, probability theory, functional analysis, partial differential equations, mathematical physics, and other theoretical and applied fields. Particular attention is given to weak convergence of measures.

Arcler Press

DIFFERENTIAL EQUATIONS

Theory and Applications

Maria Catherine Borres

Dec 2018 285pp

9781773614038 Hardback £155.00 / €179.00

Examines several aspects of differential equations, including an extensive explanation of higher order differential equations. The book includes applications in mechanics, different types of differential equations, and provides the reader with a clear understanding of theory and application of differential equations.

International Press of Boston, Inc

CELEBRATING THE 50TH ANNIVERSARY OF THE JOURNAL OF DIFFERENTIAL GEOMETRY

Lectures given at the Geometry and Topology Conference at Harvard University in 2017

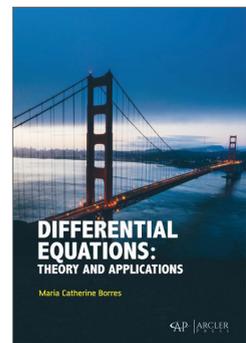
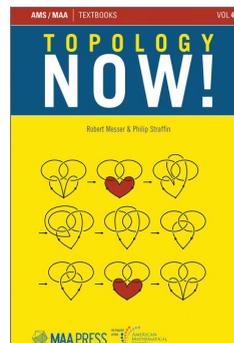
Edited by Huai-Dong Cao et al

Nov 2018 414pp

9781571463616 Hardback £71.95 / €82.00

Surveys in Differential Geometry, Vol. 22

In 1967, C.-C. Hsiung had the vision to form the *Journal of Differential Geometry* (JDG) – a journal dedicated to geometry alone. On the journal's fiftieth anniversary in 2017, a distinguished group of geometers gathered to present their papers at the annual JDG geometry and topology conference. This volume presents several of those papers.



COMPLEX GEOMETRY FROM RIEMANN TO KÄHLER-EINSTEIN AND CALABI-YAU

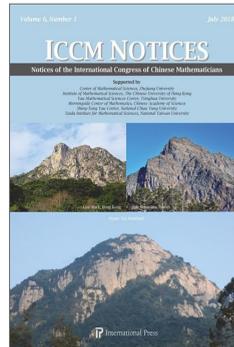
Edited by Lizhen Ji

Dec 2018 676pp

9781571463524 Paperback £91.95 / €105.00

Advanced Lectures in Mathematics, Vol. 38

Complex geometry has been extensively studied and developed since the 19th century. This volume examines the subject from a global, historical perspective. It begins with an essay on the historical development of complex geometry, concludes with a set of commentaries written by Yau on the broad subject of complex geometry and its applications.



NOTICES OF THE INTERNATIONAL CONGRESS OF CHINESE MATHEMATICIANS

Volume 6, Number 1

Edited by Shiu-Yuen Cheng et al

Dec 2018 148pp

9781571463661 Paperback

£42.50 / €49.00

Published semi-annually, the *Notices* bring news, research,

and presentation of various perspectives, relevant to Chinese mathematics development and education.

National Council of Teachers of Mathematics

ALGEBRA

Patterns, Functions, and Change Casebook

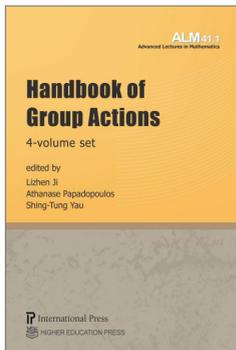
Deborah Schifter, Virginia Bastable & Susan Jo Russell

Oct 2018 255pp

9780873539357 Paperback £40.95 / €46.00

Presents twenty-nine cases, written by teachers describing real situations and actual student thinking in their classrooms, that provide the basis of each session's investigation of specific mathematical concepts and teaching strategies.

PHI Learning



HANDBOOK OF GROUP ACTIONS

Four Volume Set

Edited by Lizhen Ji, Athanase Papadopoulos & Shing-Tung You

Dec 2018 2560pp

9781571463678 Paperback

£202.00 / €231.00

Advanced Lectures in Mathematics, Vol. 41.1

Volume I

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Advanced Lectures in Mathematics, Vol. 31

Volume II

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9781571463012 Paperback £74.95 / €86.00

Advanced Lectures in Mathematics, Vol. 32

Volume III

Dec 2018 566pp

9781571463647 Paperback £75.95 / €87.00

Advanced Lectures in Mathematics, Vol. 40

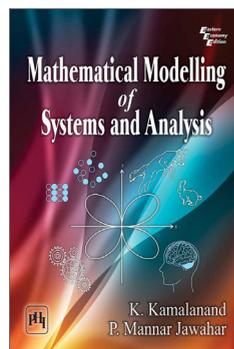
Volume IV

Dec 2018 778

9781571463654 Paperback £75.95 / €87.00

Advanced Lectures in Mathematics, Vol. 41

Groups and group actions are probably the most central objects in mathematics. Comprising volumes 31, 32, 40 and 41 of the ALM series, the *Handbook of Group Actions* presents survey articles on the topic of group actions and how they appear in several mathematical contexts.



MATHEMATICAL MODELLING OF SYSTEMS AND ANALYSIS

K. Kamalanand &

P. Mannar Jawahar

Dec 2018 268pp

9788193593813 Paperback

£16.95 / €19.00

Provides a simple yet concise explanation on the art of developing mathematical models. Organised in thirteen

chapters, the book emphasises the theory and classification of systems, modelling using ordinary differential equations, calculus of variations, stability analysis, system identification and parameter estimation techniques.

PHI Learning

MATHEMATICS BESTSELLERS

American Mathematical Society

ALGEBRAIC CURVES AND RIEMANN SURFACES

Rick Miranda

1995 390pp

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Graduate Studies in Mathematics, Vol. 5

Takes the approach that algebraic curves are best encountered for the first time over the complex numbers, where the reader's classical intuition about surfaces, integration, and other concepts can be brought into play.

ANALYSIS

Elliott H. Lieb & Michael Loss

2001 348pp

9780821827833 Hardback £47.50 / €53.00

Graduate Studies in Mathematics, Vol. 14

Presents the concepts and tools to solve problems of analysis, and shows how to apply these concepts to research in a variety of areas.

DIFFERENTIAL TOPOLOGY

Victor Guillemin & Alan Pallack

1974 222pp

9780821851937 Hardback £41.95 / €47.00

AMS Chelsea Publishing, Vol. 370

Provides an elementary and intuitive introduction to the study of smooth manifolds. By relying on a unifying idea - transversality - the authors are able to avoid the use of big machinery or ad hoc techniques to establish the main results.

*AMS Chelsea Publishing***GEOMETRY AND THE IMAGINATION**

D. Hilbert & S. Cohn-Vossen

1952 357pp

9780821819982 Hardback £45.50 / €51.00

AMS Chelsea Publishing, Vol. 87

Suitable for beginners and experienced mathematicians, this book begins with examples of the simplest curves and surfaces, including thread constructions of certain quadrics and other surfaces.

*AMS Chelsea Publishing***AN ILLUSTRATED THEORY OF NUMBERS**

Martin H. Weissman

2017 321pp

9781470434939 Hardback £68.50 / €76.00

Provides a comprehensive introduction to number theory, with complete proofs, worked examples, and exercises.

AN INTRODUCTION TO MEASURE THEORY

Terence Tao

2011 206pp

9780821869192 Hardback £55.50 / €62.00

Graduate Studies in Mathematics, Vol. 126

This graduate text introduces the fundamentals of measure theory and integration theory. It focuses first on the concrete setting of Lebesgue measure and the Lebesgue integral, before moving on to abstract measure and integration theory, including the standard convergence theorems, Fubini's theorem, and the Caratheodory extension theorem.

MANIFOLDS AND DIFFERENTIAL GEOMETRY

Jeffrey M. Less

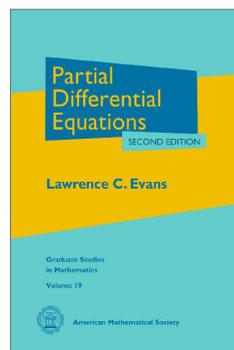
2010 671pp

9780821848159 Hardback £88.50 / €98.00

Graduate Studies in Mathematics

Differential geometry began as the study of curves and surfaces using the methods of calculus. This book offers a graduate-level introduction to the tools and structures of modern differential geometry.

★ KEY BESTSELLER

**PARTIAL DIFFERENTIAL EQUATIONS****Second Edition**

Lawrence C. Evans

2010 749pp

9780821849743 Hardback

£91.95 / €102.00

Graduate Studies in Mathematics, Vol. 19

This is the definitive text on partial differential equations (PDE). It offers

a comprehensive survey of modern techniques in the theoretical study of PDE with particular emphasis on nonlinear equations. Its wide scope and clear exposition make it a great text for a graduate course in PDE.

REALLY BIG NUMBERS

Richard Evan Schwartz

2014 192pp

9781470414252 Paperback £21.50 / €25.00

Mathematician and author Richard Evan Schwartz leads maths lovers of all ages on an innovative and strikingly illustrated journey through the infinite number system. By means of engaging, imaginative visuals and endearing narration, Schwartz manages the monumental task of presenting the complex concept of Big Numbers in fresh and relatable ways.

SPACES

An Introduction to Real Analysis



Tom L. Lindstrom

2017 369pp

9781470440626 Hardback £88.50 / €98.00

Pure and Applied Undergraduate Texts, Vol. 29

Offers a modern introduction to real analysis at the advanced undergraduate level. It is forward-looking in the sense that it first and foremost aims to provide students with the concepts and techniques they need in order to follow more advanced courses in mathematical analysis and neighbouring fields.

Hindustan Book Agency

PHI Learning

TENSORS

Mathematics of Differential Geometry and Relativity

Zafar Ahsan

2015 240pp

9788120350885 Paperback £13.50 / €15.00

Thoroughly examines tensors, and explores the derivation of all the tensorial relations/equations in an easy to understand manner. The book also deals in detail with topics of importance to the study of special and general relativity and the geometry of differentiable manifolds.

SIAM - Society for Industrial and Applied Mathematics

HANDBOOK OF WRITING FOR THE MATHEMATICAL SCIENCES

Second Edition

Nicholas J. Higham

1998 318pp

9780898714203 Paperback £64.50 / €72.00

Enlivened by anecdotes, unusual paper titles, and humorous quotations, this handy volume provides even more information on the issues you will face when writing a technical paper or talk, from choosing the right journal in which to publish to handling your references.

★ **KEY BESTSELLER**

ANALYSIS I

Third Edition

Terence Tao

2014 368pp

9789380250649 Hardback £50.50 / €56.00

Texts and Readings in Mathematics, Vol. 37

Part one of a two-volume introduction to real analysis, intended for honours undergraduates who have already been exposed to calculus. The emphasis is on rigour and on foundations.

ANALYSIS II

Third Edition

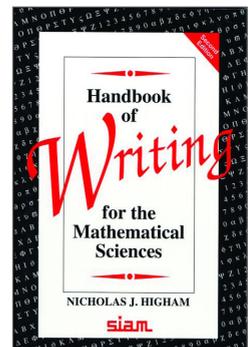
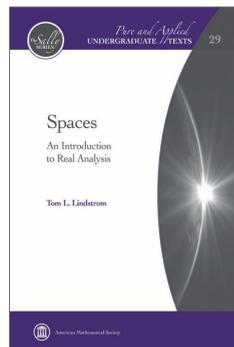
Terence Tao

2014 236pp

9789380250656 Hardback £40.50 / €45.00

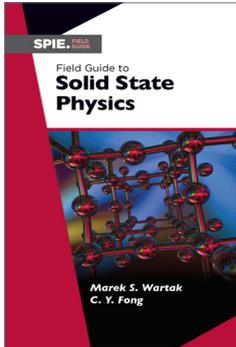
Texts and Readings in Mathematics, Vol. 38

Part two of a two-volume introduction to real analysis, intended for honours undergraduates who have already been exposed to calculus. The emphasis is on rigour and on foundations.



PHYSICS

★ HIGHLIGHT



FIELD GUIDE TO SOLID STATE PHYSICS

Marek S. Wartak & Ching-Yao Fong

Jan 2019 118pp
9781510622746 Spiralbound
£42.95 / €47.00

Field Guides, Vol. 43

Provides an overview of the basic principles of solid state physics, focusing on the practical aspects and device applications. Topics include crystal structures and dynamics, band structures, quantum structures, semiconductors, superconductors, and magnetism. Essential equations and simple diagrams efficiently convey the concepts that form the core of this field.

SPIE

Arcler Press

COMPUTATIONAL FLUID MECHANICS AND DYNAMICS FOR SCIENTISTS

Evan Russano & Elaine Ferreira Avelino

Dec 2018 277pp
9781773614014 Hardback £155.00 / €179.00

Examines various aspects of fluid mechanics and dynamics, including an extensive historical overview of fluid mechanics, dynamics and related issues. The book includes Fluid Statics, Basic Equations of Fluid Mechanics, Fluid Momentum and Pressure Drop, and Introduction to Computational Fluid Dynamics and Simulation.

CONTINUUM MECHANICS AND THEORY OF MATERIALS

Edited by Mulmudi Hemant Kumar

Dec 2018 300pp
9781773612355 Hardback £145.00 / €168.00

From the mathematical foundations to fluid mechanics and viscoelasticity, this book covers all the fundamentals - plus it also supplies a review of the necessary mathematical tools and results for a self-contained treatment. The book will be invaluable to graduate students of materials science in engineering as well as practitioners and researchers in materials science.

FEMTOSECOND PHYSICS

Laser-Matter Interaction Theory

Edited by Stefano Spezia

Dec 2018 285pp
9781773615219 Hardback £155.00 / €179.00

Examines various theories related to femtosecond physics, including an extensive overview of interaction theory and related concepts. The book includes definitions of time-dependent Schrödinger equation, field-matter interaction in quantum two-level systems, and atoms and molecules.

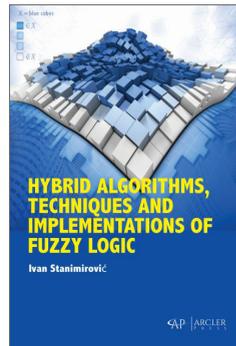
GROUP MAJORIZATION METHODS

Extensions of Matrix Inequalities to Lie Groups

Edited by Olga Moreira

Dec 2018 277pp
9781773615561 Hardback £155.00 / €179.00

Provides insights into matrix inequalities and their extensions to Lie Groups in order to provide a methodical and efficient account of recent important extensions of classical matrix results, especially matrix inequalities.



HYBRID ALGORITHMS, TECHNIQUES AND IMPLEMENTATIONS OF FUZZY LOGIC

Ivan Stanimirovic

Dec 2018 300pp
9781773613796 Hardback
£145.00 / €168.00

Explores various aspects of Fuzzy logic, including an extensive overview of hybrid algorithms, techniques and implementations. The book

includes definitions of evolutionary computation and fuzzy systems, ideologies and strategies.

AN INTRODUCTION TO INTEGRAL TRANSFORMS AND THEIR APPLICATIONS

Edited by Olga Moreira

Dec 2018 300pp
9781773615547 Hardback £155.00 / €179.00

Provides a detailed guide to integral transforms and their applications. For greater information on integral transforms, advanced topics like Dynamic Behavior of Axially Functionally Graded Pipes Conveying Fluid and Plane Wave Diffraction by a Finite Plate with Impedance Boundary Conditions are discussed.

MODERN DEVICES THERMODYNAMICS

Batteries, Fuel Cells and Supercapacitors

Dritan Hoxha

Dec 2018 277pp

9781773612904 Hardback £155.00 / €179.00

Considers various aspects of modern devices thermodynamics, including an extensive overview batteries, fuel cells and supercapacitors and related issues. The book includes types of batteries, electrochemical aspects of fuel cells, lithium battery structure, applications of batteries in the modern world, and types of fuel cells.

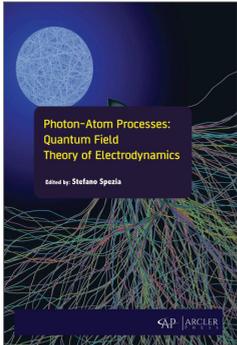
NONSTANDARD PROBLEMS IN GENERAL PHYSICS WITH SOLUTIONS

Lazo M. Manojlovi

Dec 2018 285pp

9781773614908 Hardback £155.00 / €179.00

Explores problems in the major areas of physical science: mechanics, thermodynamics, molecular physics, electrodynamics, oscillations and waves, optics, atomic and nuclear physics. This is an essential resource for learning about general relativity and much more, from four leading experts.



PHOTON-ATOM PROCESSES

Quantum Field Theory of Electrodynamics

Edited by Stefano Spezia

Dec 2018 277pp

9781773615196 Hardback
£155.00 / €179.00

Investigates various aspects of electrodynamics and various models of the Quantized EM-Field. Coverage includes quantum electrodynamics and

scattering processes, Fermion and Boson Propagators and QED processes, and Feynman diagrams and higher-order interactions in the QED of strong fields.

PHYSICS OF CONDENSED MATTER

New Research

Jae Lord Dexter C. Filipinas & Syeda Ramsha Ali

Dec 2018 285pp

9781773612232 Hardback £155.00 / €179.00

Examines various dimensions of condensed matter physics and the quantum of these matters. Coverage includes condensed matters and its quantum, approximate models of electrons and Boltzmann Transport, and the Fermion System of physics.

PHYSICS OF ENERGY SOURCES

Edited by Nelson Bolivar

Dec 2018 300pp

9781773614212 Hardback £155.00 / €179.00

Examines various dimensions of physics and energy along with the importance and extraction methods of fossil fuels. Coverage includes the meaning and types of energy sources, and solar and wind energy.

QUANTUM MECHANICS FOR APPLIED NANOTECHNOLOGY

Syeda Ramsha Ali

Dec 2018 300pp

9781773610634 Hardback £155.00 / €179.00

Examines various aspects of quantum mechanics which are required for the development of applied nano-technology. The book covers the basic concepts of quantum mechanics, radiation, particles and waves, and provides insights into the development of nano-technology and its relationship with quantum mechanics.

QUANTUM OPTICS

Applications in Research, Quantum Computing, and Quantum Communication

Edited by Klaus Petritsch

Dec 2018 300pp

9781773615455 Hardback £155.00 / €179.00

Examines various aspects of quantum optics with an illustrated research on quantum computing and communication. Coverage includes the meaning of Spatiotemporal Optical Vortices, Continuous-Wave Single-Photon Transistor and a detailed information on photonic quantum repeaters.

Delve Publishing

GEOCHEMISTRY, GEOPHYSICS, GEOSYSTEMS

Edited by Navodita Bhatnagar

Dec 2018 300pp

9781773613635 Hardback £150.00 / €174.00

Examines various aspects of the Earth and various planetary processes, focusing on the understanding of Earth as a system. The book includes a brief description of Earth and geophysics, with an extensive explanation about the dynamics of Earth, and highlights important topics related to nanotechnology and geochemistry.

Medical Physics Publishing

THE PHYSICS AND TECHNOLOGY OF RADIATION THERAPY**Second Edition**

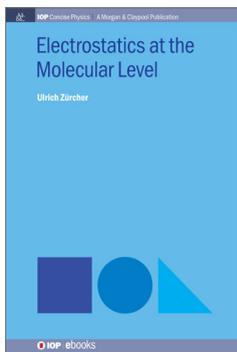
Patrick McDermott & Colin Orton

Dec 2018 870pp

9781930524989 Hardback £164.00 / €183.00

Covers the field of radiation physics with a mix of depth, insight, and humour. This second edition features new material on digital x-ray imaging, neutron survey meters, flattening-filter free and x-band linacs, biological dose indices, electronic brachytherapy, OSLD, Cerenkov radiation, FMEA, total body irradiation, and more.

Morgan & Claypool Publishers

**ELECTROSTATICS AT THE MOLECULAR LEVEL**

Ulrich Zürcher

Oct 2018 113pp

9781643271835 Paperback

£49.95 / €56.00

9781643271873 Hardback

£69.95 / €78.00

Electrostatic interactions explain pseudo-forces used in popular computer programs used to model properties of

atoms, molecules, and proteins. By beginning with the basics and then diving deeper into the topic, this book aims to familiarize the reader with electrostatic forces at the atomic and molecular level.

*IOP Concise Physics***FOURIER TRANSFORM AND ITS APPLICATIONS USING MICROSOFT EXCEL®**

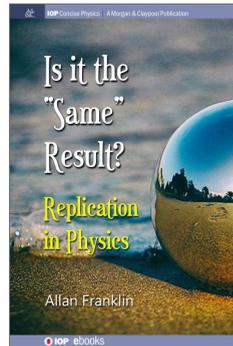
Shinil Cho

Oct 2018 123pp

9781643272832 Paperback £54.95 / €61.00

9781643272870 Hardback £74.95 / €83.00

Demonstrates Microsoft EXCEL-based Fourier transform of selected physics examples. Spectral density of the auto-regression process is also described in relation to Fourier transform. Readers can also acquire and analyze their own data following the step-by-step procedure explained in the book.

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Allan Franklin

Oct 2018 161pp

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£64.95 / €72.00

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£84.95 / €95.00

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standard" in science. This book examines the question of successful or failed replications and demonstrates that that question is not always easy to answer.

*IOP Concise Physics***OPTICAL FIBER MULTIPLEXING AND EMERGING TECHNIQUES****SDM and OAM**

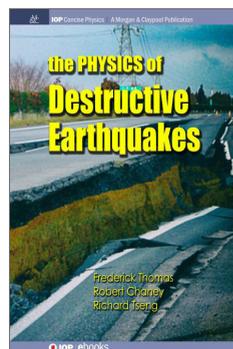
Syed H. Murshid

Oct 2018 134pp

9781681745688 Paperback £59.95 / €67.00

9781643270999 Hardback £79.95 / €89.00

Begins with the history and fundamentals of optical fiber communications. The book then introduces existing optical multiplexing techniques and finally focuses on spatial domain multiplexing (SDM), aka space division multiplexing, and orbital angular momentum of photon based multiplexing.

IOP Concise Physics**THE PHYSICS OF DESTRUCTIVE EARTHQUAKES**

Frederick Thomas,

Robert Chaney & Richard Tseng

Oct 2018 104pp

9781643270753 Paperback

£39.95 / €45.00

9781643270791 Hardback

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Offers a concise introduction to the interactions between earthquakes and human-built

structures. The book focuses on the ways in which these interactions illustrate the application of basic physics principles and concepts, including inertia, force, shear, energy, acceleration, elasticity, friction and stability.

IOP Concise Physics

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Volume 1, Geometry and the Nature of Light

John Beaver

Nov 2018 175pp

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Focuses on the physics of light and the optics of lenses, but also includes extended discussions of topics less commonly covered in a beginning text, including symmetry in art and physics, different physical processes of the scattering of light, photograms (photographic shadow prints) and the nature of shadows, elements of 2-dimensional design, pinhole photography and the view camera.

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John Beaver

Nov 2018 178pp

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Covers basic photographic subjects such as shutter, aperture, ISO, metering and exposure value, but also given their relations to the larger themes of the book less familiar topics such as the Jones-Condit equation, Lambertian versus isotropic reflections, reflection and response curves, and the opponent-process model of color perception.

IOP Concise Physics

A PRACTICAL INTRODUCTION TO BEAM PHYSICS AND PARTICLE ACCELERATORS

Second Edition

Santiago Bernal

Oct 2018 138pp

9781643270876 Paperback £59.95 / €67.00

9781643270913 Hardback £79.95 / €89.00

Provides a brief exposition of the principles of beam physics and particle accelerators with an emphasis on numerical examples employing readily available computer tools. However, it avoids detailed derivations, instead inviting the reader to use general high-end languages such as Mathcad and Matlab, as well as specialized particle accelerator codes (e.g. MAD, WinAgile, Elegant, and others) to explore the principles presented.

IOP Concise Physics

SPIN-WAVE THEORY AND ITS APPLICATIONS TO NEUTRON SCATTERING AND THZ SPECTROSCOPY

Randy S. Fishman, Jaime A. Fernandez-Baca & Toomas Rõõm

Nov 2018 225pp

9781643271118 Paperback £79.95 / €89.00

9781643271156 Hardback £99.95 / €111.00

Discusses the experimental techniques of inelastic neutron scattering and THz spectroscopy and provides the theoretical tools required to analyse their measurements using spin-wave theory. For most materials, this analysis can resolve the microscopic magnetic interactions such as exchange, anisotropy, and Dzyaloshinskii-Moriya interactions.

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Michael Grabe

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Discusses a new error concept dispensing with the common practice to randomize unknown systematic errors. Instead, unknown systematic errors are treated as what they physically are - namely as constants being unknown with respect to magnitude and sign.

IOP Concise Physics

TYING LIGHT IN KNOTS

Applying Topology to Optics

David S. Simon

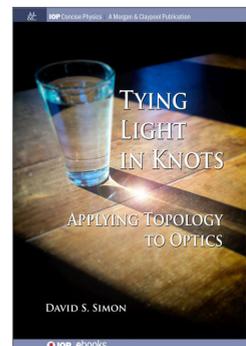
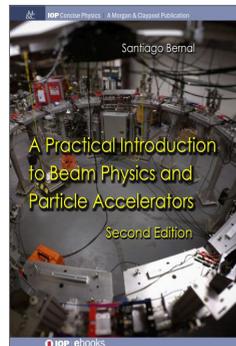
Nov 2018 130pp

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9781643272351 Hardback £74.95 / €83.00

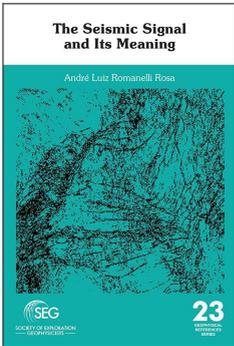
Concise provides the necessary mathematical background needed to understand these developments and to give a rapid survey of some of the optical applications where topological issues arise.

IOP Concise Physics



Society of Exploration Geophysicists (SEG)

International Press of Boston, Inc



THE SEISMIC SIGNAL AND ITS MEANING

André Luiz Romanelli Rosa

Oct 2018 788pp

9781560803331 Hardback

£234.00 / €261.00

Geophysical References, Vol. 23

Updated translation that connects the literature and routine activities of geophysicists. It shows how practical problems have links to seismic data analysis theory.

Phase and amplitude distortions to the seismic signal, the physical processes that it undergoes, and the interpretation methods to recover rock physics properties are explained.

SPE

FIELD GUIDE TO SOLID STATE PHYSICS

Marek S. Wartak & Ching-Yao Fong

Jan 2019 118pp

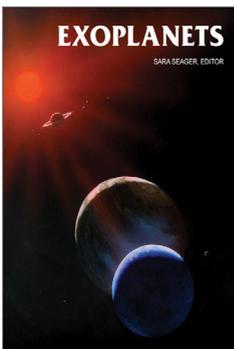
9781510622746 Spiralbound £42.95 / €47.00

Field Guides, Vol. 43

For full details of this title, see page 18.

PHYSICS BESTSELLERS

The University of Arizona Press



EXOPLANETS

Edited by Sara Seager

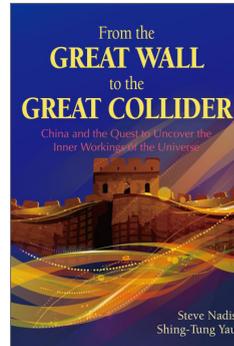
2011 500pp, illustrations

9780816529452 Hardback

£37.95 / €42.00

Now the fastest-growing field in space science, the time is right for this source book on the topic which will lay the foundation for its continued growth. This serves as both an introduction for the non-specialist and a foundation

for the techniques and equations used in exoplanet observation.



FROM THE GREAT WALL TO THE GREAT COLLIDER

China and the Quest to Uncover the Inner Workings of the Universe

Steve Nadis & Shing-Tung Yau

2015 214pp, 29 pages of photos

9781571463104 Hardback

£24.95 / €29.00

China has begun laying the groundwork for a giant

accelerator - up to 100 kilometres in circumference - that would transport physics into a previously inaccessible, high-energy realm where a host of new particles, and perhaps a sweeping new symmetry, might be found. This book explains how an ambitious new machine on this scale could provide us with a fuller understanding of the origins of our universe.

Society of Exploration Geophysicists (SEG)

BASIC GEOPHYSICS

Enders A. Robinson & Dean Clark

2017 376pp

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Geophysical Monographs, Vol. 22

Takes us on a journey that shows how the achievements of our predecessors have paved the way for modern exploration seismology. From the ancient Greeks through the Enlightenment to the greats of the contemporary age, the reasoning behind basic principles is explored and clarified.

MICROSEISMIC MONITORING

Vladimir Grechka & Werner M. Heigl

2018 468pp

9781560803478 Hardback £148.00 / €165.00

Geophysical References, Vol. 22

A thorough description of how to process microseismic data and the underlying theory, of what can and cannot be inferred, and to what level of certainty, the discussion follows the passage of a seismic wave - from a source triggered by hydraulic stimulation, through hydrocarbon-bearing formations, towards motion sensors.

ENCYCLOPEDIA OF APPLIED GEOPHYSICS

Fourth Edition

Robert E. Sheriff

2002 442pp, includes CD Rom

9781560801184 Hardback £88.95 / €99.00

Geophysical References, Vol. 13

This edition reflects evolution of the science, especially in engineering and production problems, 3D (including multicomponent) acquisition and processing, visualization, S- and converted waves, interpretation, anisotropy, AVO, geostatistics, geohazards, neural networks, tomography, downhole measurements, horizontal drilling, and deepwater work.

SEISMIC DATA ANALYSIS

Processing, Inversion, and Interpretation of Seismic Data

Öz Yilmaz

2001 2,092pp, two volumes

9781560800941 Hardback £178.00 / €199.00

Investigations in Geophysics, Vol. 10

Expanding the author's original work on processing to include inversion and interpretation, and including developments in all aspects of conventional processing, this two-volume set is a comprehensive and complete coverage of the modern trends in the seismic industry.

SEISMIC INVERSION

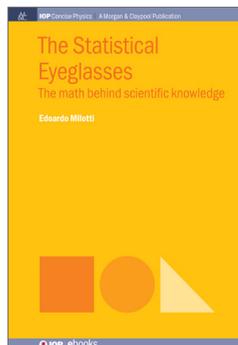
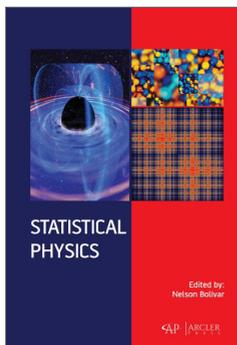
Gerard T. Schuster

2017 376pp

9781560803416 Hardback £251.00 / €279.00

Investigations in Geophysics, Vol. 20

Describes the theory and practice of inverting seismic data for subsurface rock properties of the earth. The primary application is for inverting reflection and transmission data from engineering or exploration surveys, but methods also can be used for earthquake studies.



MATHEMATICAL PHYSICS

American Mathematical Society

MATHEMATICAL AND COMPUTATIONAL METHODS IN PHOTONICS AND PHONONICS

Habib Ammari et al

Nov 2018 500pp

9781470448004 Hardback £133.00 / €148.00

Mathematical Surveys and Monographs, Vol. 235

Photonics and phononics encompass the fundamental science of light and sound propagation and interactions in complex structures, as well as its technological applications. This book reviews new mathematical tools, computational approaches, and inversion and optimal design methods to address challenging problems in photonics and phononics

Arcler Press

STATISTICAL PHYSICS

Edited by Nelson Bolivar

Dec 2018

9781773614236 Hardback £155.00 / €179.00

Covers the fundamentals of statistical physics and its application to condensed matter. A new approach to probability theory with reference to statistics and statistical physics is the main highlight of the book.

Morgan & Claypool Publishers

THE STATISTICAL EYEGLASSES

The Math Behind Scientific Knowledge

Edoardo Milotti

Nov 2018 98pp

9781643271477 Paperback £39.95 / €45.00

9781643271514 Hardback £59.95 / €67.00

Science often deals with hard-to-see phenomena, and they only stand out and become real when viewed through the lens of complex statistical tools. This book gives an overview of the basic principles that physical scientists use to analyse their data and bring out the order of Nature from the fog of background noise.

IOP Concise Physics

MATHEMATICAL PHYSICS BESTSELLERS

American Mathematical Society

CLASSICAL MECHANICS WITH CALCULUS OF VARIATIONS AND OPTIMAL CONTROL



An Intuitive Introduction

Mark Levi

2014 316pp

9780821891384 Paperback £41.95 / €47.00

Student Mathematical Library, Vol. 69

This is an intuitively motivated presentation of many topics in classical mechanics and related areas of control theory and calculus of variations.

COLLECTED PAPERS ON WAVE MECHANICS

Third Edition

Erwin Schrödinger

1982 208pp

9780821835241 Hardback £39.95 / €44.00

AMS Chelsea Publishing, Vol. 302

The famous equation that bears Erwin Schrödinger's name encapsulates his profound contributions to quantum mechanics using wave mechanics. This third, augmented edition of his papers on the topic contains the six original, famous papers in which Schrödinger created and developed the subject of wave mechanics as published in the original edition.

AMS Chelsea Publishing

MATHEMATICAL UNDERSTANDING OF NATURE

Essays on Amazing Physical Phenomena and their Understanding by Mathematicians

V. I. Arnold

2014 167pp

9781470417017 Paperback £28.95 / €32.00

This collection of 39 short stories gives the reader a unique opportunity to take a look at the scientific philosophy of Vladimir Arnold. Topics of the stories included range from astronomy, to mirages, to motion of glaciers, to geometry of mirrors and beyond.

QUANTUM FIELD THEORY

A Tourist Guide for Mathematicians

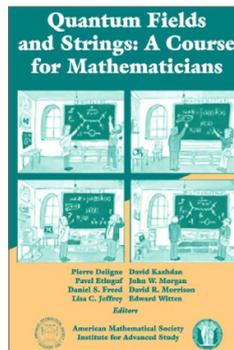
Gerald B. Folland

2008 325pp

9780821847053 Hardback £95.95 / €107.00

Mathematical Surveys and Monographs, Vol. 149

Presents the elements of quantum field theory, with the goal of understanding the behaviour of elementary particles rather than building formal mathematical structures.



QUANTUM FIELDS AND STRINGS

A Course for Mathematicians

Edited by

Pierre Deligne et al

Volume 1

1999 723pp

9780821820124 Paperback

£35.95 / €40.00

Volume 2

1999 777pp

9780821820131 Paperback £35.95 / €40.00

Volumes 1 & 2

1999 1500pp

9780821820148 Paperback £64.50 / €72.00

Ideas from quantum field theory and string theory have had considerable impact on mathematics. In 1996-97 the Institute for Advanced Study (Princeton, NJ) organized a special year-long program designed to teach mathematicians the basic physical ideas which underlie the mathematical applications. These volumes are a written record of the program.

QUANTUM MECHANICS FOR MATHEMATICIANS

Leon A. Takhtajan

2008 387pp

9780821846308 Hardback £74.50 / €83.00

Graduate Studies in Mathematics, Vol. 95

Presents a comprehensive treatment of quantum mechanics from a mathematics perspective. Including traditional topics, like classical mechanics, mathematical foundations of quantum mechanics, quantization, and the Schrödinger equation, this book gives a mathematical treatment of systems of identical particles with spin.

MATHEMATICAL METHODS IN QUANTUM MECHANICS

With Applications to Schrödinger Operators, Second Edition

Gerald Teschl

2014 356pp

9781470417048 Hardback £66.50 / €74.00

Graduate Studies in Mathematics, Vol. 157

Provides a brief, but self-contained, introduction to the mathematical methods of quantum mechanics, with a view towards applications to Schrödinger operators.

STRING-MATH 2016

Edited by Amir-Kian Kashani-Poor & Ruben Minasian

2018 294pp

9781470435158 Hardback £131.00 / €146.00

Proceedings of Symposia in Pure Mathematics, Vol. 98

Contains the proceedings of the conference String-Math 2016. The papers in this volume cover topics ranging from supersymmetric quantum field theories, topological strings, and conformal nets to moduli spaces of curves, representations, instantons, and harmonic maps.

SIAM - Society for Industrial and Applied Mathematics

TENSOR ANALYSIS

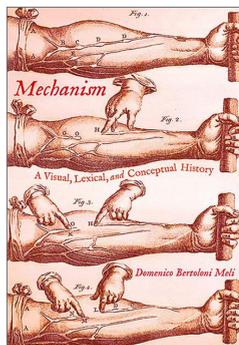
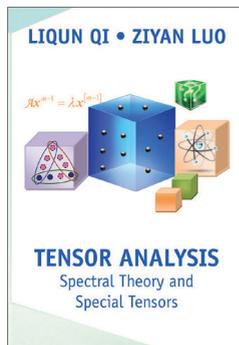
Spectral Theory and Special Tensors

Liqun Qi & Ziyang Luo

2017 319pp

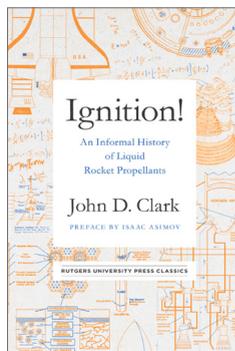
9781611974744 Paperback £83.95 / €93.00

The first book on the spectral theory of tensors; the theory of special tensors, including non-negative tensors, positive semidefinite tensors, completely positive tensors, and copositive tensors; and the spectral hypergraph theory via tensors, which is covered in a chapter.



HISTORY OF SCIENCE

★ HIGHLIGHT



IGNITION!

An Informal History of Liquid Rocket Propellants

John Drury Clark

Foreword by Isaac Asimov

Apr 2018 302pp, 3 illustrations

9780813595832 Paperback

£21.50 / €24.00

Tells the story of the search for a rocket propellant which could be trusted to take man

into space. Acclaimed scientist and sci-fi author John Clark writes with irreverent and eyewitness immediacy about the development of the explosive fuels strong enough to negate the relentless restraints of gravity.

Rutgers University Press

University of Pittsburgh Press

THE CORRESPONDENCE OF JOHN TYNDALL

Volume 6, The Correspondence, November 1856-February 1859

Edited by Michael Barton et al

Dec 2018 576pp, 15 b&w illustrations

9780822945338 Hardback £134.00 / €148.00

Contains 302 letters covering a period of twenty-eight months (1856-1859). It begins shortly after Tyndall returned from his first glacier research in the Alps and follows him as he experimented and lectured on physics in central London at the Royal Institution of Great Britain, published and reviewed scientific articles, corresponded with fellow men of science, and developed his theories.

MECHANISM

A Visual, Lexical, and Conceptual History

Domenico Bertoloni Meli

Apr 2019 232pp, 58 photos

9780822945475 Hardback £48.50 / €54.00

Presents a lexical study of the usage of the term "mechanism" in seventeenth-century Britain, where it was used frequently in specific studies as well as in broader philosophical and theological debates. The author also investigates the intersection between the notion of mechanism and the problem of visual representation.

HISTORY OF SCIENCE BESTSELLERS

University of Pittsburgh Press

KEW OBSERVATORY AND THE EVOLUTION OF VICTORIAN SCIENCE, 1840–1910*Lee T. Macdonald*

2018 336pp, 11 b&w illustrations

9780822945260 Hardback £48.50 / €54.00

Science & Culture in the Nineteenth Century

Explores the extraordinary story of this important scientific institution as it rose to prominence during the Victorian era. This book offers fresh new insights into key historical issues in nineteenth-century science.

STYLES OF KNOWING**A New History of Science from Ancient Times to the Present***Chunglin Kwa*

2011 448pp

9780822961512 Paperback £37.95 / €42.00

Explores the development of various scientific reasoning processes in cultural-historical context. Kwa organises his book according to six distinct styles: deductive, experimental, analytical-hypothetical, taxonomic, statistical, and evolutionary.

Rutgers University Press

FINDING EINSTEIN'S BRAIN*Frederick E. Lepore*

2018 256pp, 20 b&w photos, 5 graphs

9780813580395 Hardback £23.95 / €27.00

Following his death in 1955, Albert Einstein's brain was removed and preserved, but has never been fully or systematically studied. In this compelling tale, Frederick Lepore delves into the strange, elusive afterlife of Einstein's brain and what it represents for brain and/or intelligence studies.

★ KEY BESTSELLER

IGNITION!**An Informal History of Liquid Rocket Propellants***John Drury Clark*

Foreword by Isaac Asimov

2018 302pp, 3 illustrations

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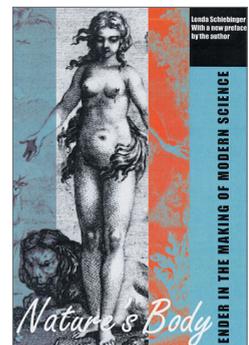
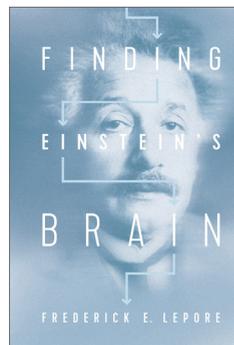
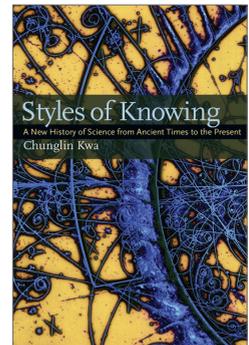
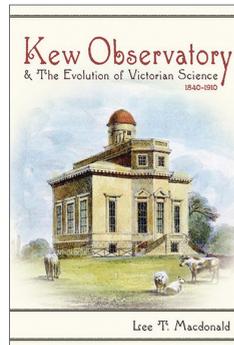
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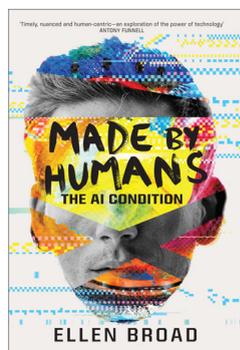
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GENERAL & POPULAR SCIENCE

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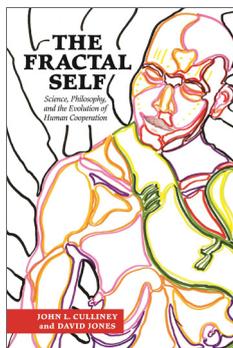
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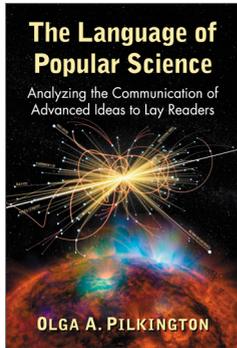
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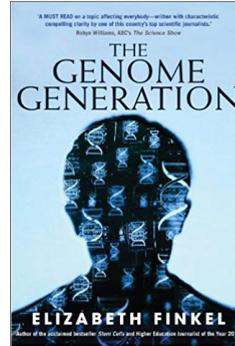
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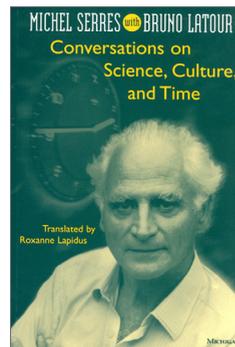
Ellen Broad

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University of Michigan Press



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