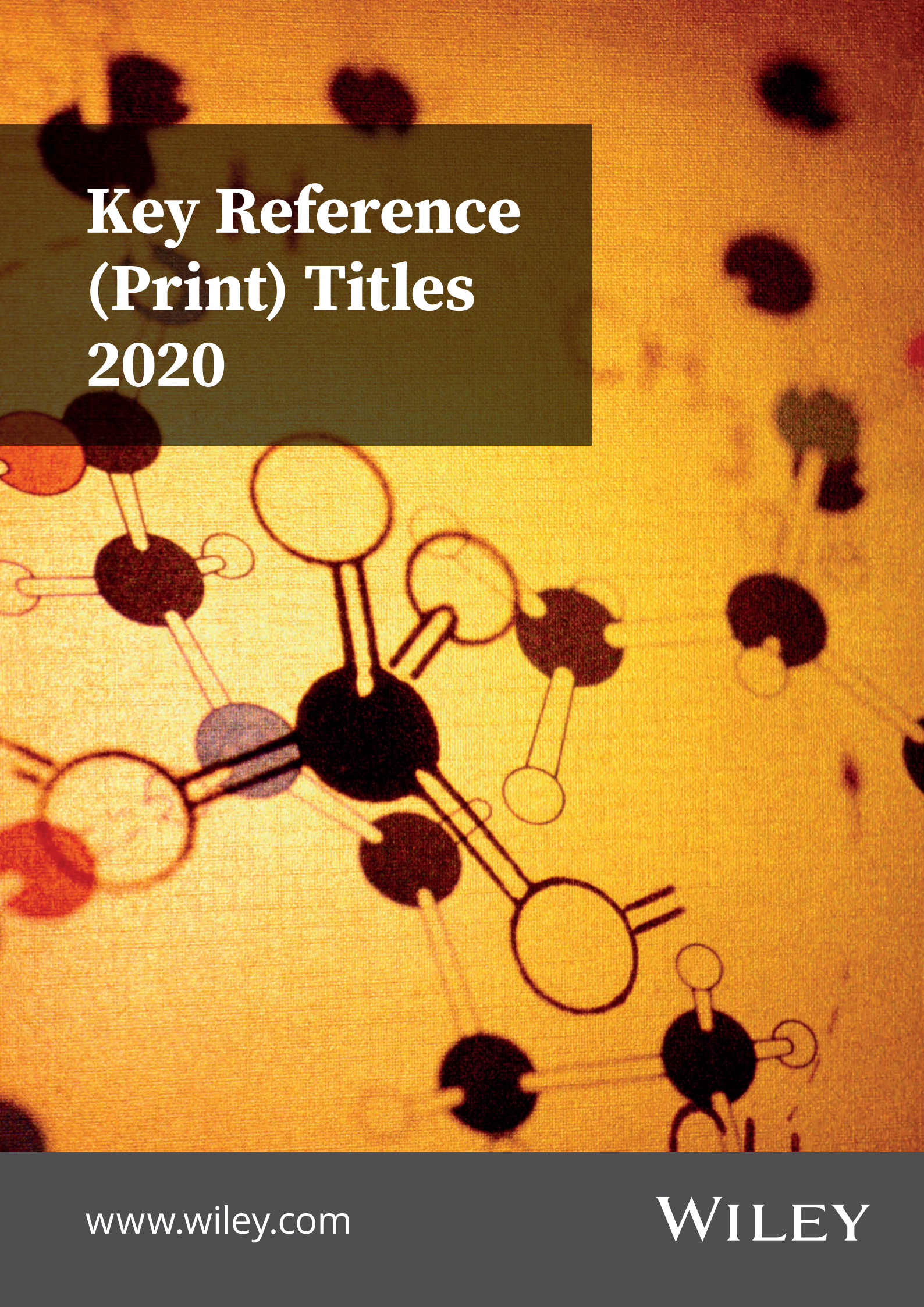


The background of the cover features a complex molecular structure rendered in a stylized, almost artistic manner. It consists of various colored spheres (black, white, red, blue, yellow) connected by lines representing chemical bonds. The structure is set against a warm, golden-yellow background with a subtle, textured pattern. A dark green rectangular box is positioned in the upper left corner, containing the title text in white.

Key Reference (Print) Titles 2020

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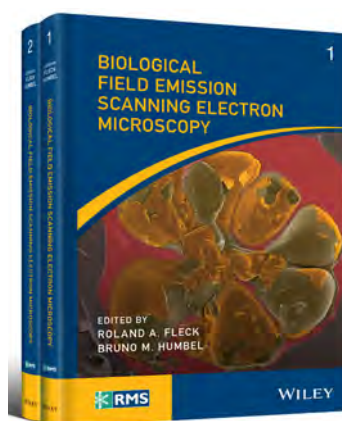
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Biological Field Emission Scanning Electron Microscopy

(Edited by) Roland A. Fleck & Bruno M. Humbel

Biological Field Emission Scanning Electron Microscopy is a full-colour, must-have book for microscopists that traces the development of the biological field emission scanning electron microscopy (FEGSEM) and highlights the present capability, application and value of the technique in biological research as well as the wider biological science community. Starting with the theory and history of FEGSEM, the book offers chapters covering Operation; FEI, JEOL, HITACHI, ZEISS, Tescan, and Agilent; technical developments essential to bioFEGSEM; Cryobio FEGSEM; Cryo-FIB; FEGSEM digital-tomography; array tomography; digital challenges and more.

Readership: Academic and industrial users of electron microscopy; students and those with a general interest in microscopy.

2-Volume Set • Reference • 9781118654064 • Mar-19 • Cloth • 752pp • US\$200.00
Online ISBN: 9781118663233



Forensic Science and Humanitarian Action

Interacting with the Dead and the Living

(Edited by) Roberto C. Parra, Sara C. Zapico & Douglas H. Ubelaker

Using the preservation of the dignity of the deceased as its foundation, *Forensic Science and Humanitarian Action* is a unique examination of the applications of humanitarian forensic science. Spanning two comprehensive volumes, the text is sufficiently detailed for forensic practitioners, yet accessible enough for non-specialists, and discusses both the latest technologies and real-world interactions.

Section I History, theory, practice and legal foundation • **Section II** Forensic basic information to trace missing persons • **Section III** Stable isotopes forensics and search of missing persons • **Section IV** DNA Analysis and Forensic Identification Process • **Section V** Identifying deceased and finding missing persons • **Section VI** Conclusions

Readership: Forensic science practitioners and researchers, Communities of Humanitarian workers, Human Rights defenders, Government and Non-Governmental officials, students in forensic science, forensic ecology and forensic anthropology modules and related programs.

2-Volume Set • Reference • 9781119481966 • Feb-20 • Cloth • 896pp • US\$225.00
Online ISBN: 9781119482062





International Tables for Crystallography, 6th Edition

C. P. Brock

International Tables for Crystallography is the definitive resource and reference work for crystallography and structural science. Now in nine volumes, each of the volumes in the series contains articles and tables of data relevant to crystallographic research and to applications of crystallographic methods in all sciences concerned with the structure and properties of materials. Emphasis is given to symmetry, diffraction methods and techniques of crystal-structure determination, and the physical and chemical properties of crystals. The data are accompanied by discussions of theory, practical explanations and examples.

Volume A: Space-Group symmetry, 6E

Volume A1: Symmetry Relations between Space Groups, 2E

Volume B: Reciprocal Space, 3E

Volume C: Mathematical, Physical and Chemical Tables, 3E

Volume D: Physical Properties of Crystals, 2E

Volume E: Subperiodic Groups, 2E

Volume F: Crystallography of Biological Macromolecules, 2E

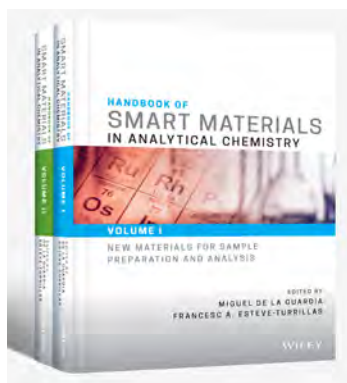
Volume G: Definition and Exchange of Crystallographic Data

Volume H: Powder Diffraction

Readership: Scientists in academia and industry using crystallographic techniques in physics, chemistry, materials science, metallurgy, earth sciences and molecular biology.

9-Volume Set • Reference • 9781119468707 • Aug-19 • Cloth • 7010pp • US\$2,750.00

Online ISBN: 9780470685754 • Previous print edition: 9781119362296



Handbook of Smart Materials in Analytical Chemistry

(Edited by) Miguel de la Guardia & Francesc A. Esteve-Turrillas

A comprehensive guide to smart materials and how they are used in sample preparation, analytical processes, and applications. *Handbook of Smart Materials in Analytical Chemistry* provides detailed information on the present state of new materials tailored for selective sample preparation, the legal frame and environmental side effects of the use of smart materials for sample preparation in analytical chemistry, as well as their use in the analytical processes and application in specific fields such as water, food, air, pharmaceuticals, clinical sciences and forensics.

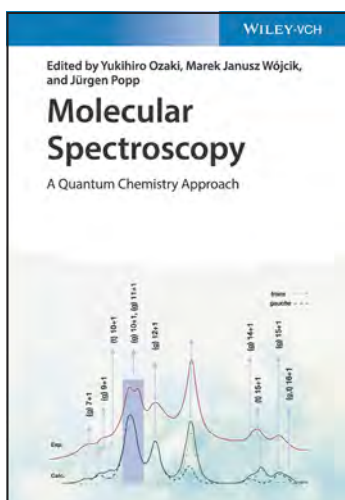
Volume 1: New Materials for Sample Preparation and Analysis

Volume 2 Analytical Processes and Applications

Readership: Analytical chemists and advanced students in the areas of analytical chemistry; specialists in application laboratories, instrument companies and modern industries based on the production of smart materials.

2-Volume Set • Reference • 9781119422624 • Feb-19 • Cloth • 1000pp • US\$370.00

Online ISBN: 9781119422587



Molecular Spectroscopy

A Quantum Chemistry Approach

(Edited by) Yukihiro Ozaki, Marek Janusz Wójcik & Jürgen Popp

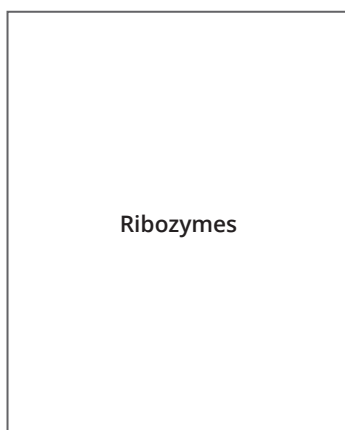
Uniquely creates a strong bridge between molecular spectroscopy and quantum chemistry. *Molecular Spectroscopy* examines the recent progress made in the field of molecular spectroscopy; the state of the art of quantum chemistry for molecular spectroscopy; and more. It offers multiple chapters covering the application of quantum chemistry to: visible absorption and fluorescence, Raman spectroscopy, infrared spectroscopy, terahertz spectroscopy, and far-ultraviolet spectroscopy. The reference presents hydrogen bonding studies by vibrational spectroscopy and quantum chemistry, as well as vibrational spectroscopy and quantum chemistry studies on both biological systems and nano science.

Professor **Yukihiro Ozaki** spent eight years at the Jikei University School of Medicine, Japan, he joined Kwansei Gakuin University in 1989. Since 1993, he has been a professor in the School of Science and Technology. He received a Fellow Award from Royal Society of Chemistry, Chemical Society of Japan and Society for Applied Spectroscopy, and is a multi-award winner including the 1998 Tomas Hirschfeld Award, the 2005 Science and Technology Award of Japanese Government, Gerald Birth Award, MIT Dasari Lecture Award, USA (2011), Bomem-Michelson Award (2014), and Doctor Honoris Causa from Jagiellonian University (2016).

Readership: Analytical Chemists, Theoretical Chemists, Chemists, Biochemists, Materials Scientists, Biologists, Physicists, Analytical Laboratories in Industry.

2-Volume Set • Reference • 9783527344611 • May-19 • Cloth • 640pp • US\$380.00
Online ISBN: 9783527814596

BIOCHEMISTRY (CHEMICAL BIOLOGY)



Ribozymes

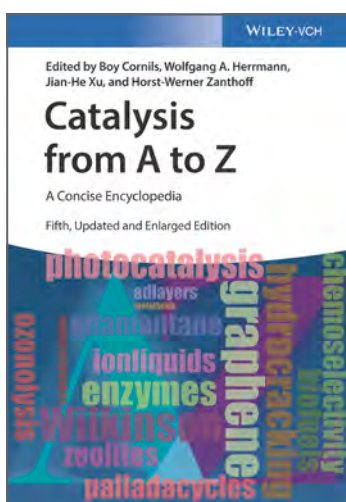
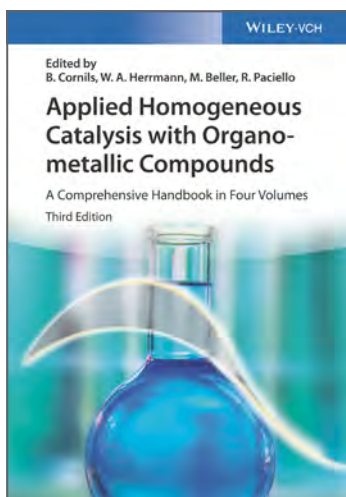
(Edited by) Sabine Müller, Benoît Masquida & Wade Winkler

The discovery (in the early 1980s) by Nobel laureate Tom Cech that nucleic acids, in particular ribonucleic acid (RNA), can function as biocatalysts in the same way that enzymes do has sparked the field of ribozyme research. Organized in over 50 chapters, *Ribozymes* integrates the knowledge that has been gained in the field over the past 35 years, with contributions by top international experts from leading academic institutions and in the field, provide first-hand accounts of concepts, techniques and applications.

Part 1: Nucleic Acid Catalysis: Principles, Strategies and Evolution • **Part 2:** Naturally Occurring Ribozymes • **Part 3:** Artificial Ribozymes • **Part 4:** DNAzymes • **Part 5:** Rational Engineering of Ribozymes • **Part 6:** Ribozymes as Therapeutic Tools • **Part 7:** Tools and Methods

Readership: Biochemists, Biotechnologists, Molecular Biologists, Bioengineers.

3-Volume Set • Reference • 9783527344543 • Sep-20 • Cloth • 1450pp • US\$740.00
Online ISBN: 9783527814527



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Applied Homogeneous Catalysis with Organometallic Compounds, 3rd Edition

A Comprehensive Handbook in Four Volumes

(Edited by) Boy Cornils, Wolfgang A. Herrmann, Matthias Beller & Rocco Paciello

The completely revised edition of *Applied Homogeneous Catalysis with Organometallic Compounds* is fully updated and now includes such topics as CH-activation and multicomponent reactions, with description of the most important reaction types, new methods and recent developments in catalysis. A classic with its internationally renowned editors and a plethora of international authors (including Nobel laureate R. Noyori) guarantee high quality content throughout the book.

Readership: Catalytic chemists, chemists working with/on organometallics; organic chemists, inorganic chemists and chemical engineers.

4-Volume Set • Reference • 9783527328970 • Oct-17 • Cloth • 1872pp • US\$702.00
Online ISBN: 9783527651733 • Previous print edition: 9783527304349

Catalysis from A to Z, 5th Edition

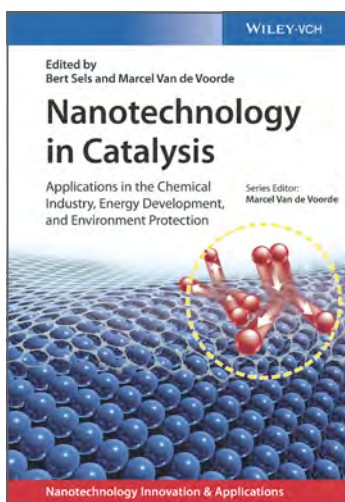
A Concise Encyclopedia

(Edited by) Boy Cornils, Wolfgang A. Herrmann, Jian-He Xu & Horst-Werner Zanthoff

A true classic in catalysis in its fifth edition and with 20% more content. Written by more than 200 top scientists and with more than 15,000 entries on all aspects of catalysis, *Catalysis from A to Z* is filled with figures, tables, cross-references, and references. It covers acids, ligands, catalytic reactions in organic synthesis, kinetics and thermodynamics of catalytic reactions, and catalyst labeling. The book also looks at theoretical backgrounds of catalytic reactions, industrial catalytic processes, autoclaves, colloids, nanomaterials, spectroscopically methods for catalyst analysis, and more.

Readership: Chemists, Catalytic Chemists, Chemical Industry, Chemical Engineers, Biochemists, Organic Chemists, Chemists working with/on Organometallics, Inorganic Chemists, Electrochemists and Polymer Chemists.

5-Volume Set • Reference • 9783527343119 • Nov-19 • Cloth • 2952pp •
Introductory price \$1200 until 29-Feb 2020
Online ISBN: 9783527809080 • Previous print edition: 9783527333073



Nanotechnology in Catalysis

Applications in the Chemical Industry, Energy Development, and Environment Protection

(Series Editor) Marcel Van de Voorde

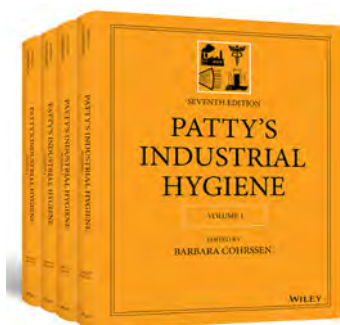
Reflecting the number of novel applications over the past decade, *Nanotechnology in Catalysis* gives a comprehensive overview of this scientifically and economically important field, bridging fundamental research and industrial development to provide a unique perspective.

Volume 1 Part One Preparation of Nanocatalysts and Their Potential in Catalysis • **Volume 2** Part Two Nano Catalysis for Precision on Chemicals Production and Alternative Feedstock Conversion • **Volume 3** Part Three Nanocatalysis for Environment Protection and Innovations in Energy Research

Readership: Catalytic chemists, materials scientists, chemists in industry and process engineers.

3-Volume Set • Reference • 9783527339143 • Jul-17 • Cloth • 1190pp • US\$670.75
Online ISBN: 9783527699827

CHEMICAL AND ENVIRONMENTAL HEALTH AND SAFETY



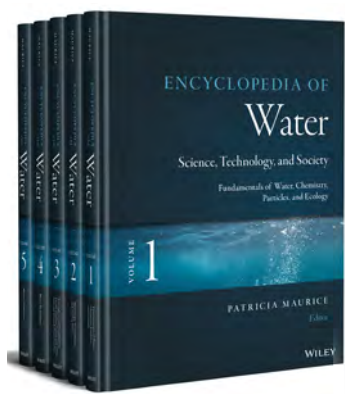
Patty's Industrial Hygiene, 7th Edition

(Edited by) Barbara Cohrssen

Industrial Hygiene is an interdisciplinary field that integrates chemistry, engineering, toxicology, medicine, and occupational health. *Patty's Industrial Hygiene* has had a reputation for the past 60 years of providing up to date information for the experienced as well as novice industrial hygienist. The new edition addresses the needs brought about by globalization and the need for many professionals to expand their roles. The 7th edition has put in place a diverse editorial board from different regions of the world, insuring that it has a worldwide group of contributors, and covers topics of interest globally.

Readership: Industrial hygienists, chemical hygiene officers, Occupational / environmental health and safety professionals and managers, Occupational physicians & nurses, Hazardous materials managers; Safety and Health regulators, Emergency and first responders, Toxicologist, and students in industrial hygiene and safety program.

4-Volume Set • Reference • 9781119438021 • Nov-20 • Cloth • 1800pp • US\$TBA
Online ISBN: 9781119693352 • Previous print edition: 9780470074886



Encyclopedia of Water

Science, Technology, and Society

(Editor) Patricia Maurice

The Encyclopedia of Water is a comprehensive, multidisciplinary reference work that reflects the current state of the field from multidisciplinary global viewpoints. It contains hundreds of articles on topics ranging from the hydrologic cycle and water technology to societal considerations - reflecting the substantial changes in water science and engineering in recent years.

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Volume 2: Hydrology, Groundwater, and Surface Water

Volume 3: Atmosphere and Precipitation, Ice and Glaciers, Oceans and Coasts, Soils and Mineral-Water Interface

Volume 4: Water Technology

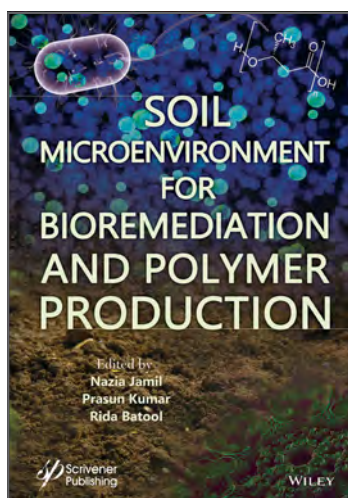
Volume 5: Human Dimension

Readership: Hydrologists, environmental/geo chemists, environmental engineers, soil scientists, agriculturists, biologists, ecologist, as well as senior undergraduate and postgraduate students and educators in these areas.

4-Volume Set • Reference • 9781119300755 • Mar-20 • Cloth • 2976pp

Introductory price \$1150 until 30-Jun 2020

Online ISBN: 9781119300762



Soil Microenvironment for Bioremediation and Polymer Production

(Edited by) Nazia Jamil, Prasun Kumar & Rida Batool

Consisting of 21 chapters by subject matter experts, *Soil Microenvironment for Bioremediation and Polymer Production* describes relatively new harmful elements and their bioremediation techniques comprising of tannery waste, oil spills, wastewater, greenhouse gases, plastic wastes, and many more and provides the most innovative practices in the field of bioremediation.

Part 1: Soil Microenvironment and Biotransformation Mechanisms •

Part 2: Synergistic Effects between Substrates and Microbes • **Part 3:**

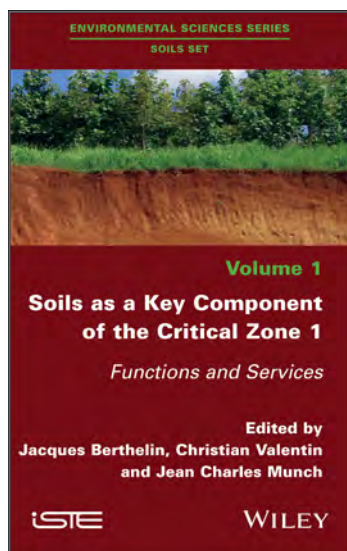
Polyhydroxyalcanoates: Resources, Demands and Sustainability •

Part 4: Cellulose Based Biomaterials: Benefits and Challenges

Readership: Researchers, professionals, and graduate students in applied microbiology, green product biotechnology, environmental, toxicology and soil micro sciences.

Reference • 9781119592051 • Dec-19 • Cloth • 420pp • US\$224.95 • Print-on-demand

Online ISBN: 9781119592129



Soils as a Key Component of the Critical Zone

(Edited by) Jacques Berthelin, Christian Valentin, Jean Charles Munch, Guillaume Dhérissard, Guilhem Bourrié, Christian Valentin, Philippe Lemanceau & Manuel Blouin

Soils play a crucial role through the functions and the services that they provide to mankind. The spatial and temporal variability of soils is represented by information systems whose importance, recent evolutions and increasingly performing applications in France and in the world must be underlined.

Volume 1: Functions and Services

Volume 2: Societal Issues

Volume 3: Soils and Water Circulation

Volume 4: Soils and Water Quality

Volume 5: Degradation and Rehabilitation

Volume 6: Ecology

Volume 1 • Reference • 9781786302151 • Jul-18 • Cloth • 340pp • US\$164.95
Online ISBN: 9781119438069

Volume 2 • Reference • 9781786302168 • Sep-18 • Cloth • 168pp • US\$119.95
Online ISBN: 9781119438137

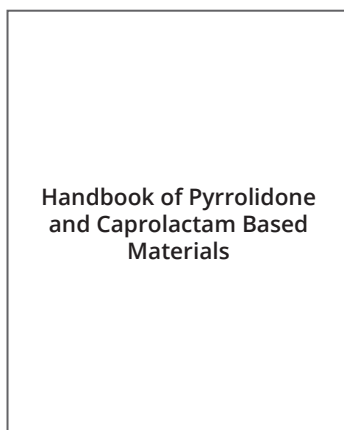
Volume 3 • Reference • 9781786302175 • Dec-18 • Cloth • 180pp • US\$119.95
Online ISBN: 9781119438045

Volume 4 • Reference • 9781786303486 • Dec-18 • Cloth • 212pp • US\$134.95
Online ISBN: 9781119571940

Volume 5 • Reference • 9781786302199 • Dec-18 • Cloth • 264pp • US\$144.95
Online ISBN: 9781119438298

Volume 6 • Reference • 9781786302182 • Dec-18 • Cloth • 196pp • US\$119.95
Online ISBN: 9781119438274

INDUSTRIAL CHEMISTRY



Handbook of Pyrrolidone and Caprolactam Based Materials

Synthesis, Characterization and Industrial Applications

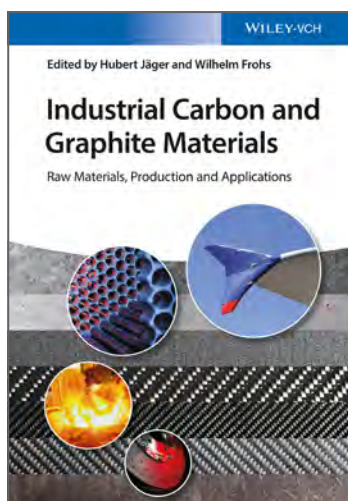
Osama M. Musa

Brings together, for the first time, a comprehensive review of all aspects of pyrrolidone- and caprolactam-based materials. From synthesis, through production and into applications, this extensive work targets significant and recent trends in γ - and ϵ -lactam science and technology and addresses all key aspects of pyrrolidone- and caprolactam-based materials to produce a definitive overview of the field.

Readership: Industrial scientists and engineers in polymer development and manufacturing, academic researchers in the fields of chemistry, materials science, and chemical and process engineering.

6-Volume Set • Reference • 9781119468738 • Sep-20 • Cloth • 1500pp • US\$495.00
Online ISBN: 9781119468769





Industrial Carbon and Graphite Materials

Raw Materials, Production and Applications

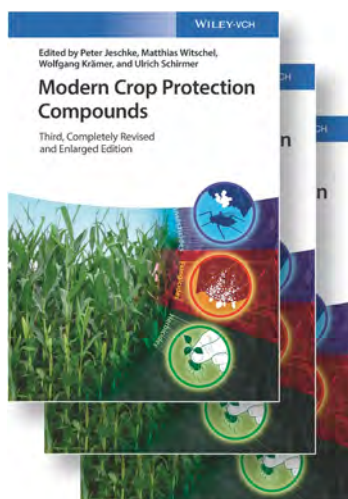
(Edited by) Hubert Jaeger & Wilhelm Frohs

An overview of industrial carbon and graphite materials, especially their manufacture, use and applications in industry. *Industrial Carbon and Graphite Materials* features chapters on carbon and graphite materials in energy application, and as catalysts. It covers all important classes of carbon and graphite, from polygranular materials to fullerenes, and from activated carbon to carbon blacks and nanoforms of carbon.

Readership: Chemists and engineers working in such fields as steel, aluminum, electrochemistry, nanotechnology, catalyst, carbon fibres and lightweight composites.

Reference • 9783527336036 • Mar-20 • Cloth • 1016pp • US\$470.00

Online ISBN: 9783527674046



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Modern Crop Protection Compounds, 3rd edition

(Edited by) Peter Jeschke, Matthias Witschel, Wolfgang Kramer & Ulrich Schirmer

Written by first-class authors from top crop science companies, *Modern Crop Protection Compounds* has been fully updated to reflect the latest developments in the field, and new chapters have been added on picolinic acids, oxathiapiprolin, flupyradifurone, and other topics. Three topical volumes cover herbicides, fungicides, and insecticides in terms of their chemistry, mode of action, commercial use, and industrial synthesis.

This is a comprehensive and invaluable source for all of those working in modern biology, including genetics, biochemistry and chemistry, and for those in modern crop protection science, whether governmental authorities, researchers in agrochemical companies, scientists at universities, or conservationists.

3-Volume Set • Reference • 9783527340897 • Feb-19 • Cloth • 1784pp • US\$740.00

Online ISBN: 9783527699261

ORGANIC CHEMISTRY



Comprehensive Organic Transformations, 3rd edition

A Guide to Functional Group Preparations

(Edited by) Richard C. Larock

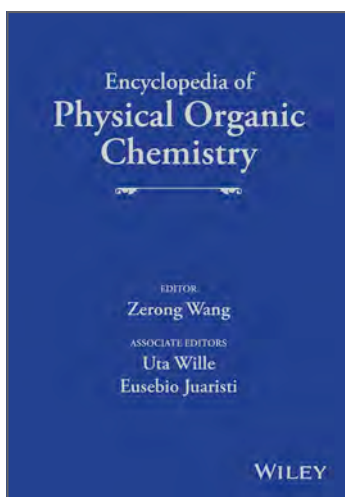
PROSE Award Finalist 2019 – Multivolume Reference/Science

This greatly-expanded new edition of a best-selling guide offers an encyclopedic and systematic collection of useful synthetic methodology, including tens of thousands of reactions and synthetic transformations.

Readership: Professional chemists in government and industries such as pharmaceutical, agricultural, fine chemical, and biotechnical; Upper-level undergraduate and graduate students in organic chemistry.

4-Volume Set • Reference • 9780470927953 • Jan-18 • Cloth • 4056pp • US\$1,247.95

Online ISBN: 9781118662083 • Previous print edition: 9781118037584



Encyclopedia of Physical Organic Chemistry

(Editor) Zerong Wang

Winner of 2018 PROSE Award for Multivolume Reference/Science

This encyclopedia offers a comprehensive and easy reference to physical organic chemistry (POC) methodology and techniques. It puts POC, a classical and fundamental discipline of chemistry, into the context of modern and dynamic fields like biochemical processes, materials science, and molecular electronics.

Volume 1: Part 1 Basic Terms and Theories

Volume 2: Part 2 Organic Reactions and Mechanisms

Volume 3: (Continued) Part 2 Organic Reactions and Mechanisms • Part 3 Molecular Designs and Syntheses

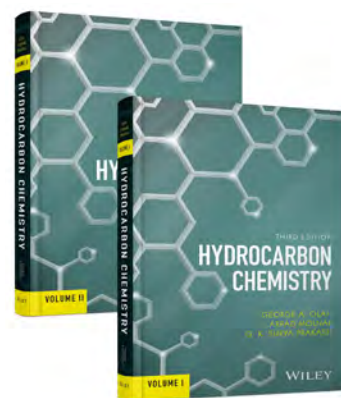
Volume 4: (Continued) Part 3 Molecular Designs and Syntheses • Part 4 Tools and Experimental Techniques

Volume 5 (Continued) Part 4 Tools and Experimental Techniques • Part 5 Applications and Future Directions

Volume 6: (Continued) Part 5 Applications and Future Directions

Readership: Professional chemists in government and industry, chemical and materials companies; chemistry researchers; physicists, biochemists, materials scientists, researchers interested in optical materials, molecular electronics and nanomedicine.

6-Volume Set • Reference • 9781118470459 • Feb-17 • Cloth • 4464pp • US\$2,079.95
Online ISBN: 9781118468586



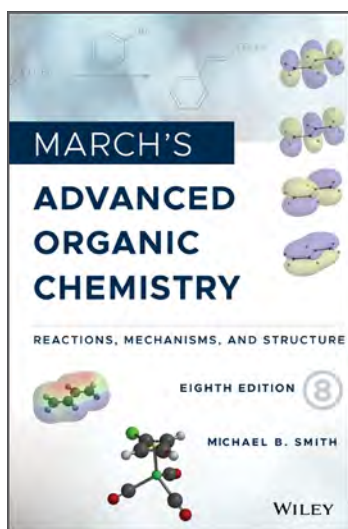
Hydrocarbon Chemistry, 3rd edition

George A. Olah, Arpad Molnar & G. K. Surya Prakash

Hydrocarbon Chemistry provides an unparalleled contemporary assessment of hydrocarbon chemistry - presenting basic concepts, current research, and future applications. Since the previous publication, the field of hydrocarbon chemistry has rapidly grown both in its scientific scope and significances and provides the most promising approach to replace coal, petroleum oil, and natural gas. It is also able to render the use of still existing substantial fossil fuels environmentally adaptable by capturing and recycling CO₂ and recycling it through material to new fuels and chemical raw material - developments that lead to this third edition.

Readership: Practicing scientists in petroleum companies, polymers, scientists interested in catalytic processes; Industry, academic, graduate students.

2-Volume Set • Reference • 9781119390510 • Sep-17 • Cloth • 1216pp • US\$467.95
Online ISBN: 9781119390541 • Previous print edition: 9780471417828



March's Advanced Organic Chemistry, 8th edition

Reactions, Mechanisms, and Structure

Michael Smith

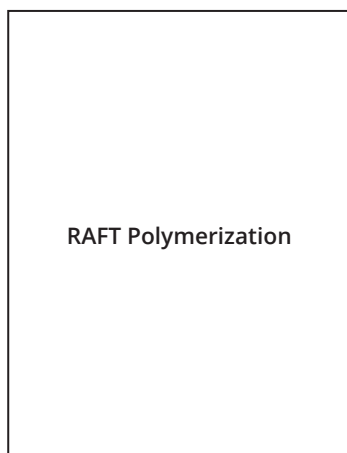
The revised and updated edition of *March's Advanced Organic Chemistry* explains the theories of organic chemistry with examples and reactions. This text is the most comprehensive resource about organic chemistry available, guiding readers on the planning and execution of multi-step synthetic reactions, with detailed descriptions of all the reactions.

Part I Localized Chemical Bonding • Delocalized Chemical Bonding • Bonding Weaker Than Covalent • Stereochemistry and Conformation • Carbocations, Carbanions, Free Radicals, Carbenes, and Nitrenes • Mechanisms and Methods of Determining Them • Irradiation Processes and Techniques that Influence Reactions in Organic Chemistry • Acids and Bases • Effects of Structure and Medium on Reactivity

Part II Aliphatic Substitution, Nucleophilic and Organometallic • Aromatic Substitution, Electrophilic • Aliphatic, Alkenyl, and Alkynyl Substitution: Electrophilic and Organometallic • Aromatic Substitution: Nucleophilic and Organometallic • Radical Reactions • Addition to Carbon-Carbon Multiple Bonds • Addition to Carbon-Heteroatom Multiple Bonds • Elimination Reactions • Rearrangements • Oxidations and Reductions

Readership: Synthetic organic chemists, medicinal chemists in Academia; pharmaceuticals, food, agrochemicals and biotech industries; graduate Students of organic chemistry, medicine, pharmaceuticals, polymers.

Reference • 9781119371809 • Jan-20 • Cloth • 2144pp • US\$174.95
Previous print edition: 9780470462591



RAFT Polymerization

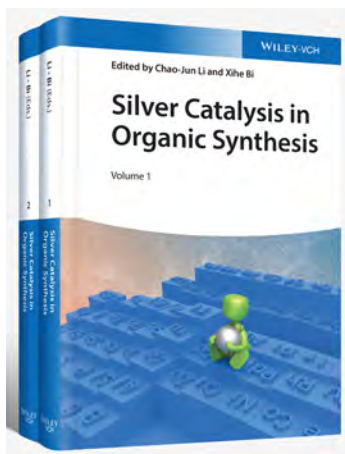
Methods, Synthesis and Applications

Graeme Moad

RAFT (Reversible Addition-Fragmentation chain Transfer polymerisation) is one successful example of controlled radical polymerization. With this method, it is possible to design polymers with a defined molecular weight. RAFT polymerization can be used to design polymers of complex architectures, such as linear block copolymers, comb-like, star, brush polymers, dendrimers and cross-linked networks. Spanning the entire field from mechanism to theory, from different methods to applications in material science, industrial chemistry and medicine, this is *the* comprehensive one-stop reference edited by Graeme Moad, one of the RAFT pioneers.

Readership: Organic and Polymer chemists, Materials scientists, Chemists in industry, Chemical engineers, Libraries.

Reference • 9783527344956 • Sep-20 • Cloth • 850pp • US\$421.95
Online ISBN: 9783527821358



Silver Catalysis in Organic Synthesis

(Edited by) Chao-Jun Li & Xihe Bi

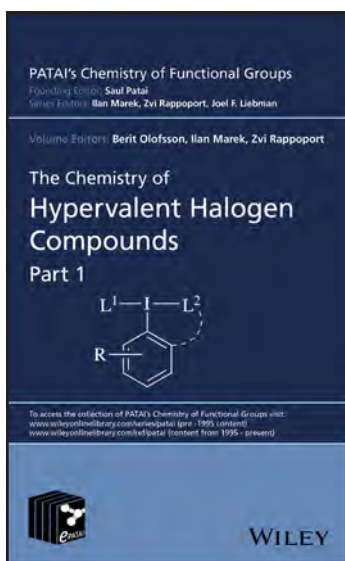
Silver catalysis has emerged as a powerful tool in the field of organic synthesis. *Silver Catalysis in Organic Synthesis* systematically explores the unique performance of silver catalysis, introducing all the recent progress of silver catalysis in organic synthesis. This comprehensive reference clearly emphasizes the unique features of silver catalysis, provides the reaction mechanism involved, as well as vivid schematics and tables throughout to enhance the accessibility to the relevant theory and mechanisms.

Volume 1 Introduction to Silver Chemistry • Silver-Catalyzed Cycloaddition Reactions • Silver-Catalyzed Cyclizations • Silver-Mediated Radical Reactions • Silver-Mediated Fluorination, Perfluoroalkylation and Trifluoromethylthiolation Reactions • Coupling Reactions and C-H Functionalization

Volume 2 Silver-Catalyzed CO₂ Incorporation • Silver-Catalyzed Carbene, Nitrene, and Silylene Transfer Reactions • Asymmetric Silver-Catalyzed Reactions • Silver-Catalyzed Reduction and Oxidation of Aldehydes and Their Derivatives • Silver Complexes in Organic Transformations • Silver Nanoparticles in Organic Transformations

Readership: Chemists, biochemists, pharmaceutical scientists, biomedical researchers, agriculture scientists, and graduate students in the related fields.

2-Volume Set • Reference • 9783527342815 • Jan-19 • Cloth • 848pp • US\$470.00
Online ISBN: 9783527342822



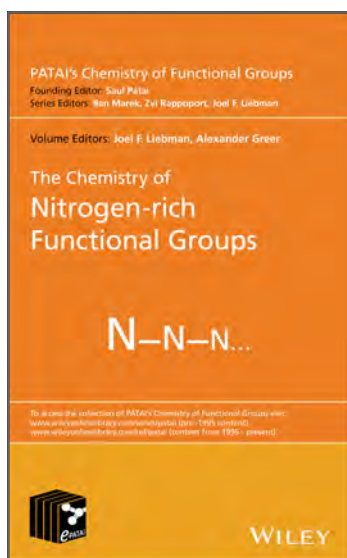
The Chemistry of Hypervalent Halogen Compounds

(Founding Editor) Saul Patai (Series Editors) Ilan Marek, Zvi Rappoport & Joel F. Liebman

In the tradition of Patai's Chemistry of Functional Groups each volume treats all aspects of functional groups, touching on theoretical, analytical, synthetic, biological, and industrial aspects. Hypervalent halogen compounds, in particular iodine compounds, are very efficient and selective oxidants which tolerate a wide range of functional groups. The electrophilic properties of these reagents can also be used to introduce other functionalizations. The present volume is the first in the series to survey the properties and chemical behaviour of hypervalent iodine and bromine, their use in organic synthesis, as well as their industrial application.

Readership: Chemists in industry and academia in the fields of Organic Chemistry, Pharmaceutical and Medicinal Chemistry, Agrochemicals, Polymers, Functional Materials.

Reference • 9781119352303 • Mar-19 • Cloth • 1032pp • US\$1,225.00
Online ISBN: 9780470682531



The Chemistry of Nitrogen-rich Functional Groups

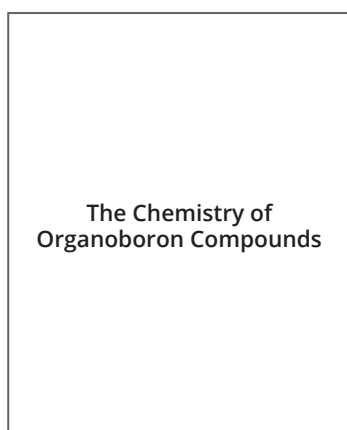
(Founding Editor) Saul Patai (Series Editors) Ilan Marek, Zvi Rappoport & Joel F. Liebman

Nitrogen is unique among the non-carbon atoms in its ability to form single, double, and triple bonds with itself, giving rise to a wide range of organic-chemical groups containing several nitrogen atoms in different states and geometries. *PATAI's Chemistry of Functional Groups* publishes comprehensive reviews on all aspects of specific functional groups. Each volume contains outstanding surveys on theoretical and computational aspects, NMR, MS, other spectroscopic methods and analytical chemistry, structural aspects, thermochemistry, photochemistry, synthetic approaches and strategies, synthetic uses and applications in chemical and pharmaceutical industries, biological, biochemical and environmental aspects.

Readership: Organic chemists in industry and academia in Organic Chemistry, Explosives, Materials and Polymers, Pharmaceutical and Medicinal Chemistry, Agrochemicals.

Volume 1 • Reference • 9781119311782 • Nov-19 • Cloth • 424pp • US\$1,000.00
Online ISBN: 9780470682531

Volume 2 • Reference • 9781119352310 • Dec-20 • Cloth • 848pp • US\$857.95
Online ISBN: 9780470682531



The Chemistry of Organoboron Compounds

Mark Gandelman, Ilan Marek, Joel F. Liebman & Zvi Rappoport

Organoboron compounds are widely used as highly efficient reagents in a growing number of reactions, including cross-coupling and radical reactions. Organoboron derivatives are also found in highly temperature-resistant polymers, and in high-performance electronic and sensor materials. *The Chemistry of Organoboron Compounds* is the first in the series to survey the properties and chemical behavior of organoboron compounds, their use in organic synthesis, as well as their commercial application.

Readership: Chemists in academia and industry in the fields of Organic Chemistry, Pharmaceutical and Medicinal Chemistry, Agrochemicals, Polymers, Functional Materials.

Reference • 9781119518044 • Jul-20 • Cloth • 1100pp • US\$1,104.95
Online ISBN: 9780470682531

**Burger's Medicinal Chemistry,
Drug Discovery and
Development, 8th Edition**

**Burger's Medicinal Chemistry, Drug Discovery and
Development, 8th Edition**

Donald J. Abraham

This updated and expanded edition of *Burger's Medicinal Chemistry, Drug Discovery and Development* has been thoroughly revised and improved to incorporate the concepts of drug hunting along with its existing coverage of the entire process of drug discovery and development. Bringing in a new and expert editorial board, this new edition updates existing chapters and adds up to 72 new ones. The established resource features new topics including opioid addiction treatments, antibody and gene therapy for cancer, advances in understanding and treating Alzheimers Disease, industrial-academic collaboration structures, and the integration of affiliated fields with drug discovery.

Readership: Graduate students to professional Bioengineers, Biologists, Chemists, and Medical Researchers with an emphasis on Medicinal and Clinical Chemists; Pharmaceutical professionals.

8-Volume Set • Reference • 9781119530305 • Oct-20 • Cloth • 900pp • US\$TBA
Previous print edition: 9780470278154



**Chemical Probes for Drug
Research**

Chemical Probes for Drug Research

Chemical Biology Tools for Target and Drug Discovery

Ivan Cornella Taracido, Raimund Mannhold, Helmut Buschmann & Jörg Holenz

Unmatched in its depth and scope, this systematic survey of the different classes of probes is augmented by case studies from real-life drug discovery projects. This is a grand summary of the lessons learnt during the first decade of applying chemical biology technologies in a pharmaceutical context. Early adopters in the industry, as well as experts from the academic institutions who pioneered this technique, share their experience and provide valuable practical advice.

Volume 1 • Part 1: Introduction • Part 2: Chemical Probes for Proteomics
• Part 3: Chemical Probes for Genomics and Transcriptomics • **Volume 2** •
Part 4: Chemical Probes for Whole Cell and Tissue in Vivo Analysis • Part 5:
Chemical Probe Libraries • Part 6: Case Studies

Readership: Medicinal chemists, biochemists, biotechnologists, pharmaceutical industry.

2-Volume Set • Reference • 9783527341672 • Dec-20 • Cloth • 800pp • US\$405.00
Online ISBN: 9783527802876



**Encyclopedia of Controlled
Drug Delivery, 2nd Edition**

Encyclopedia of Controlled Drug Delivery, 2nd Edition

Heather A. E. Benson & Michael F. Roberts

The *Encyclopedia of Controlled Drug Delivery* offers an extensive and easily accessible coverage of state-of-the-art topics in drug delivery systems. In this second edition, coverage will be significantly expanded beyond the original edition's 2 volumes scope to a total of 6 fresh volumes, now organized thematically. The topics feature the history and development of the drug delivery field, systems and dosage forms, controlled delivery fundamentals, pharmacokinetics, biomaterials, mathematical modeling, targeted delivery for specific diseases, tissue engineering, bio- and nanotechnology, and regulations and economics.

Readership: Drug researchers working in academic departments and pharmaceutical and biotechnology companies; Industrial scientists, graduate students, post-docs in the general areas of drug delivery including pharmaceuticals, pharmaceutical sciences, biomedical engineering, polymer and materials science, chemical and biochemical engineering.

6-Volume Set • Reference • 9781118978900 • Nov-20 • Cloth • 3600pp • US\$TBA
Online ISBN: 9781118978917 • Previous print edition: 9780471148289



Lead Optimization



Lead Optimization

Methods and Strategies

Jörg Holenz, Helmut Buschmann, Michael Palovich & Raimund Mannhold

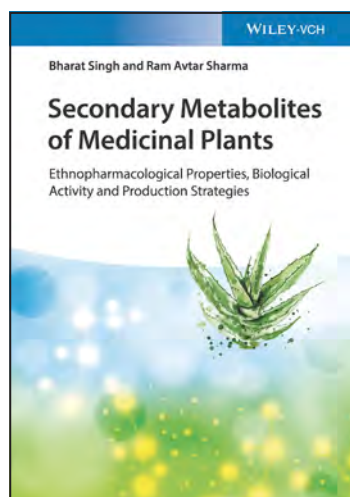
Lead Optimization features the full range of methods and strategies in pharmaceutical lead optimization, covering standard as well as novel approaches, highlighting their strengths and weaknesses. The reference includes a number of industry-relevant aspects for successful lead optimization, as well as numerous case studies and data from real drug development projects address the day-to-day challenges of the practising medicinal chemist.

Volume 1 Part I: Lead Optimization Concepts, Strategies and Processes

Volume 2 Part II: Lead Optimization of Potency and Compound Attributes • Part III: Case Studies of Lead Optimization Campaigns Against Demanding Targets

Readership: Medicinal chemists, pharmacologists, toxicologists, pharma engineers, pharmaceutical industry.

2-Volume Set • Reference • 9783527344208 • Oct-20 • Cloth • 780pp • US\$405.00
Online ISBN: 9783527813223



Secondary Metabolites of Medicinal Plants

Ethnopharmacological Properties, Biological Activity and Production Strategies

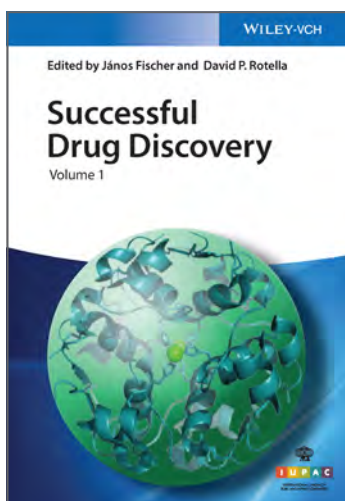
Bharat Singh & Ram Avtar Sharma

Secondary metabolites of plants are a treasure trove of novel compounds with potential pharmaceutical applications. Consequently, the nature of these metabolites as well as strategies for the targeted expression and/or purification is of high interest. Regarding their biological and pharmacological activity and ethnopharmacological properties, this book offers a comprehensive treatment of 100 plant species, including Abutilon, Aloe, Cannabis, Capsicum, Jasminum, Malva, Phyllanthus, Stellaria, Thymus, Vitis, Zingiber, and more. It also discusses the cell culture conditions and various strategies used for enhancing the production of targeted metabolites in plant cell cultures.

Part 1 Introduction • **Part II** Ethnomedicinal and pharmacological properties, chemical structures, culture conditions of secondary metabolites • **Part III** Strategies of secondary metabolites production • **Part IV** Conclusions

Readership: Chemists, Patent Chemists, Structural Chemists, Biochemists, Natural Products Chemists, Medicinal Chemists, Toxicologists, Biotechnologists, Biologists, Life Scientists, Molecular Biologists, Pharmaceutical Chemists, Pharmacologists, Chemical Industry, Biotechnological Industry, Chemical Institutes, Biochemical Institutes, Biological Institutes, Company Libraries, Libraries at Universities, Libraries at University Institutes.

4-Volume Set • Reference • 9783527347322 • Apr-20 • Cloth • 1904pp • US\$570.00
Online ISBN: 9783527825578



Successful Drug Discovery

(Edited by) János Fischer, Wayne E. Childers, David P. Rotella & Christian Klein

Behind every new drug is a fascinating story of creativity, problem-solving, foresight, and tenacity. Here, the inventors and primary developers of drugs that made it to the market tell the story of the drug's discovery and development and discuss the sometimes twisted route from the first drug candidate molecule to the final marketed drug. All case studies describe recently introduced drugs, for which no comprehensive account has been published previously. They range across many therapeutic fields and provide a representative cross-section of the present-day drug development effort. Backed up by lots of data and chemical information, the insight and experience of the best contemporary drug creators turns this book into one of the best training manuals that a junior medicinal chemist can hope to find.

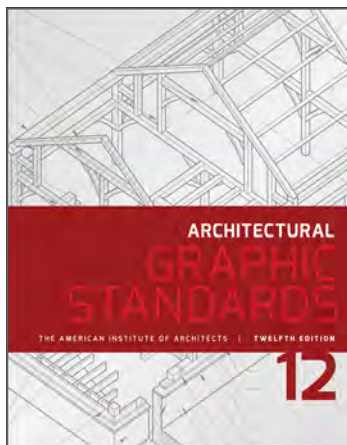
Readership: Medicinal chemists, pharmaceutical chemists, pharmaceutical industry, organic chemists, lecturers in Pharmacy.

Volume 1 • Reference • 9783527336852 • Feb-15 • Cloth • 256pp • US\$197.50
Online ISBN: 9783527678433

Volume 2 • Reference • 9783527341153 • Oct-16 • Cloth • 292pp • US\$223.50
Online ISBN: 9783527800315

Volume 3 • Reference • 9783527343034 • Apr-18 • Cloth • 472pp • US\$215.00
Online ISBN: 9783527808694

Volume 4 • Reference • 9783527344680 • Jul-19 • Cloth • 272pp • US\$190.00
Online ISBN: 9783527814695



Architectural Graphic Standards, 12th Edition

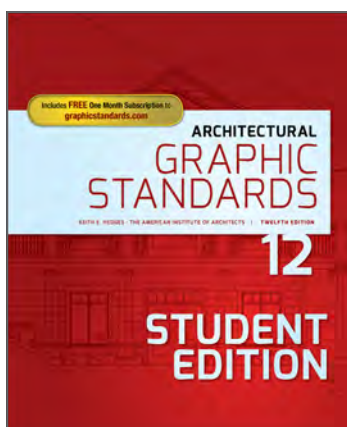
The American Institute of Architects

The 'Architect's Bible' since 1932, *Architectural Graphic Standards* is the written authority for architects, designers, and building contractors. Endorsed by the American Institute of Architects, this book has an enduring and unsurpassed reputation for high-quality illustration, text, and graphic design. Updated to reflect the most current codes and standards, this new 12th edition features over 300 new drawings, tables, and designs and 25% new content. In response to architects' feedback and overwhelming demand for a more graphics-heavy format, this edition employs shorter, more accessible texts and more images of the standards and evolution of design and construction.

Section 1 Design Principles & Construction Documentation • Functional Planning • Environment • Building Resiliency • Architectural Construction Documentation

Section 2 Materials • Concrete • Masonry • Metals • Wood, Plastics, and Composites • Glass • Element A: Substructure • Element B: Shell • Element C: Interiors • Element D: Services • Element E: Equipment and Furnishings • Element F: Special Construction • Element G: Sitework

Trade • 9781118909508 • Mar-16 • Cloth • 1088pp • US\$259.95



Architectural Graphic Standards, 12th Edition, Student Edition

The American Institute of Architects & Keith E. Hedges

Architectural Graphic Standards, Student edition condenses the definitive industry reference to provide students with a powerful learning resource. Covering design and documentation for a variety of projects, this edition offers extensive visuals backed by expert discussion to prepare students for work in a modern professional practice. This new 12th edition provides the latest information on important architectural developments, including sustainability, economy, technology, and more alongside current building standards and best practices.

Readership: Higher education students in accredited design and construction, degree granting programs primarily in architecture and secondarily in engineering; Architectural Interns studying for the licensing exam.

Trade • 9781119312512 • Mar-17 • Paper • 688pp • US\$129.95



The Companions to the History of Architecture

(General Editor) Harry Francis Mallgrave

Over one hundred eminent historians, academics, and practising architects have come together to present this invaluable guide to the history of architecture. Unprecedented in its in-depth coverage, and with over 500 illustrations, photographs, and architectural drawings the multi-volume *Companion to the History of Architecture* offers an indispensable resource on architectural thought and practice ranging from the 15th century to the present day.

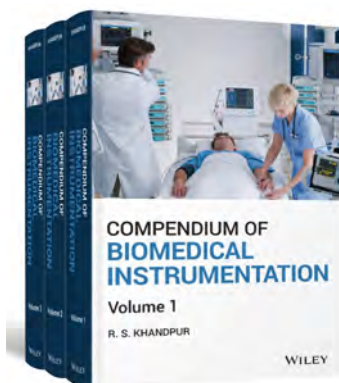
Volume I Renaissance and Baroque Architecture • **Volume II** Eighteenth-Century Architecture

Volume III Nineteenth-Century Architecture • **Volume IV** Twentieth-Century Architecture

Readership: Students and scholars of Architectural Theory, Architecture, and Art History.

4-Volume Set • Reference • 9781444338515 • Mar-17 • Cloth • 3320pp • US\$826.75
Online ISBN: 9781118887226

BIOMEDICAL ENGINEERING



Compendium of Biomedical Instrumentation

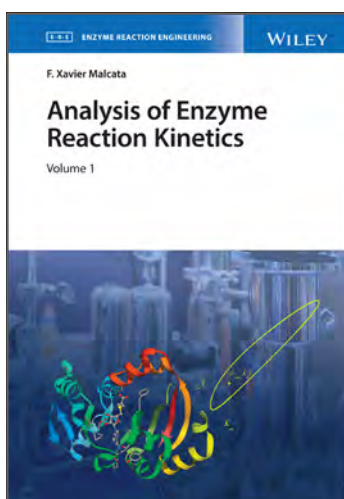
Raghubir Singh Khandpur

An essential reference with an alphabetized list of 400 -450 biomedical instruments and devices in use today, providing working principle, broad specifications, and applications for each instrument, and a glossary of commonly used biomedical instrumentation terms in use. The field of medical instrumentation is inter-disciplinary, having interest groups both in medical and engineering professions. The purpose of this book is to provide an essential reference which can be used both by the engineering as well as medical communities to understand the technology and applications of a wide range of medical instruments.

Readership: Professionals in biomedical engineering; Clinical engineers, Bio-medical equipment Technicians, undergraduate and graduate students on Bio-medical Engineering/Instrumentation courses.

3-Volume Set • Reference • 9781119288121 • Jan-20 • Cloth • 1800pp • US\$275.00
Online ISBN: 9781119288190

CHEMICAL ENGINEERING



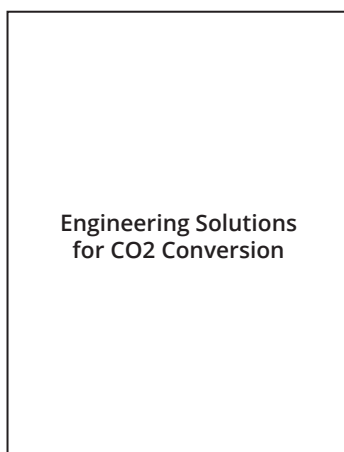
Analysis of Enzyme Reaction Kinetics

F. Xavier Malcata

The second set in the Enzyme Reactor Engineering collection, *Analysis of Enzyme Reaction Kinetics* describes rate expressions pertaining to enzymatic reactions, including modulation by physicochemical factors, as well as tools for prediction and control of how fast substrates are transformed to products. Volume 1 details rate expressions mathematically derived from mechanistic postulates, and is complemented by appropriate statistical approaches to fit them to experimental data. Volume 2 discusses the effects of physical and chemical parameters upon the rates of both enzyme-catalyzed and enzyme-deactivation reactions.

Readership: Researchers in bioreactor engineering, working in chemical engineering, biochemistry, biological engineering, and chemistry, and in industry.

2-Volume Set • Reference • 9781119490241 • Sep-20 • Cloth • 1472pp • US\$425.00
Online ISBN: 9781119490258



Engineering Solutions for CO₂ Conversion

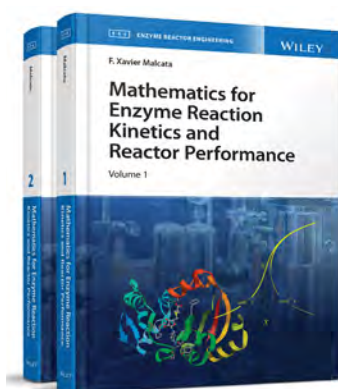
Tomas Ramirez Reina, Jose A Odriozola & Harvey Arellano-Garcia

Despite the global efforts in reducing CO₂ emissions after Kyoto's Protocol and recently reconsidered in Paris' Agreement, we are still far to meet the emissions levels requirements. This trend makes necessary an immediate response from the scientific community to develop solutions to face this global challenge. This book comprises a complete overview of the current technologies to tackle CO₂ emissions ranging from CO₂ capture to CO₂ utilization approaches. The book is presented as a multidisciplinary toolkit covering all the different aspects of CO₂ conversion strategies including chemical, physical, engineering and economical facets.

Block 1 Fundamental Aspects of Carbon Capture and Utilization • **Block 2** Catalytic Solutions for CO₂ Utilization • **Block 3** Non-Conventional CO₂ Conversion Technologies: Approaches Based on Membranes, Fuel Cells, Plasma, Microwave and Bio-technology

Readership: Catalytic chemists, Electrochemists, Process and Chemical Engineers, Chemists in industry, Photochemists, Environmental and Theoretical chemists, Environmental officers.

Reference • 9783527346394 • Aug-20 • Cloth • 800pp • US\$470.00



Mathematics for Enzyme Reaction Kinetics and Reactor Performance

F. Xavier Malcata

The Enzyme Reactor Engineering collection is organized into eleven volumes in four major sets.

The first set *Mathematics for Enzyme Reaction Kinetics and Reactor Performance* details the mathematical background required for systematic and rational simulation of both enzyme reaction kinetics and enzyme reactor performance. It reviews basic and useful concepts of Algebra in Volume 1, and Calculus and Statistics in Volume 2.

2-Volume Set • Reference • 9781119490289 • Apr-20 • Cloth • 1152pp • US\$350.00
Online ISBN: 9781119490319

COMMUNICATION TECHNOLOGY

Algorithms for
Communications Systems
and their Applications,
2nd Edition



Algorithms for Communications Systems and their Applications, 2nd Edition

Nevio Benvenuto, Giovanni Cherubini & Stefano Tomasin

The authors comprehensively introduce the theoretical elements which are at the basis of the field of algorithms for communications systems. Various applications of these algorithms are then illustrated with a focus on wired and wireless network access technologies. The updated applications will focus on 5G standards, and new material will include MIMO systems; OFDM and SC-FDMA; and Full Duplex Systems.

Readership: Researchers and professionals in the areas of Digital Communications, Signal Processing and Computer Engineering, and Graduate students.

Reference • 9781119567967 • Jul-20 • Cloth • 1200pp • USTBA
Online ISBN: 9781119567998 • Previous print edition: 99780470843895

Position, Navigation, and
Timing Technologies in the
21st Century



Position, Navigation, and Timing Technologies in the 21st Century

Integrated Satellite Navigation, Sensor Systems, and Civil Applications

Jade Morton, Frank van Diggelen, James Spilker, Jr. & Bradford Parkinson

Featuring sixty-four chapters that are divided into six parts, this two-volume work provides comprehensive coverage of the state-of-the-art in satellite-based position, navigation, and timing (PNT) technologies and civilian applications. It also examines alternative navigation technologies based on other signals-of-opportunity and sensors and offers a comprehensive treatment on integrated PNT systems for consumer and commercial applications.

Readership: Industry professionals, researchers, and academics involved with the science, engineering, and applications of position, navigation, and timing technologies.

2-Volume Set • Reference • 9781119458340 • Jul-20 • Cloth • 2000pp • US\$331.95
Online ISBN: 9781119458371

3D and Circuit Integration of MEMS

3D and Circuit Integration of MEMS

Masayoshi Esashi

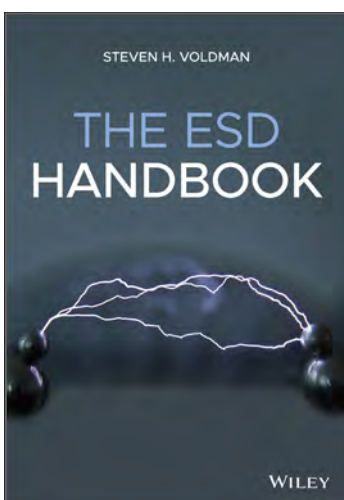
Micro-Electro-Mechanical Systems (MEMS) and Micro-Systems Technologies are used in Integrated Circuit (IC) industry to make not only circuits but also sensors, actuators and microstructures on a silicon chips. Heterogeneous integration, such as MEMS integrated with IC are introduced in many of commercialized MEMS to meet the need of signal processing and communication functions. This book comprehensively and systematically introduces technologies for microsystem packaging and heterogeneous integration. It focuses on the silicon MEMS which have been used in large volume and the technologies concerning system integration.

Introduction • 1. Overview • System on Chip • 2. Bulk Micromachining • 3. Poly-Si, Sige Surface Micromachining • 4. Epitaxial Poly Si Surface Micromachining • 5. Metal Surface Micromachining • 6. MEMS Using CMOS Wafer • Stacking • 7. Anodic Bonding • 8. Direct Bonding • 9. Metal Bonding • 10. Polymer Bonding • 11. Wafer Transfer • 12. Through Wafer Interconnection • Sealing and Packaging • 13. Shell Packaging • 14. Buried Channels in Monolithic Si • 15. Episeal • 16. Metal Seal • 17. Wafer Level Packaging • 18. System-in-Package

Masayoshi Esashi is Professor in the Micro System Integration Center at Tohoku University, Japan. He has published more than 500 scientific papers and has received numerous awards including the IEEE Andrew S. Grove Award in 2015 and IEEE Jun-ichi Nishizawa medal in 2016.

Readership: Materials scientists, Electronics engineers, Electrical engineers, Mechanical engineers, Semiconductor physicists, Semiconductor industry, Libraries.

Reference • 9783527346479 • Oct-20 • Cloth • 840pp • US\$445.00
Online ISBN: 9783527823239



The ESD Handbook

Steven H. Voldman

The ESD Handbook offers a comprehensive reference that explores topics relevant to Electrostatic Discharge (ESD) design in semiconductor components and explores ESD in various systems. Electrostatic discharge is a common problem in the semiconductor environment and this reference fills a gap in the literature by discussing ESD protection. Written by a noted expert on the topic, the text offers a topic-by-topic reference that includes illustrative figures, discussions, and drawings.

Readership: Technicians, operators, engineers, circuit designers, and failure analysis engineers; Senior undergraduate students in electrical engineering, semiconductor sciences, and manufacturing sciences.

Reference • 9781119965176 • Dec-20 • Cloth • 1024pp • US\$295.00
Online ISBN: 9781119233091



ENVIRONMENTAL ENGINEERING

Recovery and Reuse of
Resource and Energy**Recovery and Reuse of Resource and Energy***Wenshan Guo, Huu Hao Ngo, Rao Y. Surampalli & Tian C. Zhang*

Resource and Energy Recovery and Reuse elucidates basic scientific principles and technological advances of current practical technologies for resource recovery from waste generated. It presents solutions to pressing all concerned problems associated with energy production during waste management and treatment, the feasibility of turning waste as a possible resource, health impacts due to waste disposal and pollution prevention.

Readership: Chemists, water chemists, environmental chemists, engineers, food chemists, biotechnologists, chemical industry, food industry, environmental officers, environmental consultants, graduate students.

Reference • 9783527347223 • Jan-21 • Cloth • 800pp • US\$470.00
Online ISBN: 9783527825394



GENERAL ENERGY

Building an Effective Security
Program for Distributed
Energy Resources and Systems**Building an Effective Security Program for Distributed Energy Resources and Systems***Mariana Hentea*

This book provides a unified approach for building a security program for distributed energy resource (DER) systems and applications using systems engineering techniques, standards, and best practices. *Building an Effective Security Program for Distributed Energy Resources and Systems* outlines the differences between the security requirements of a traditional IT system and those of industrial control systems. It educates engineers to the design, implementation, and maintenance of a security program suitable for control systems and the power grid; and security professionals on the specific requirements of industrial and control applications.

Readership: Practitioners and engineers in power engineering; IT and security professionals; graduate students in electrical and power engineering.

Reference • 9781118949047 • Sep-20 • Cloth • 1500pp • US\$TBA
Online ISBN: 9781119070740



MATERIAL SCIENCE

Encyclopedia of
Glass Science, Technology,
History, and Culture**Encyclopedia of Glass Science, Technology, History, and Culture***Pascal Richet*

A comprehensive and up-to-date encyclopedia to the fabrication, nature, properties, uses, and history of glass. *Encyclopedia of Glass Science, Technology, History, and Culture* - in over 100 chapters and illustrated with 1100 figures, by 151 noted experts in 23 countries - describes how the practical importance of glass has increased over the ages since it was first man-made four millennia ago. The old-age glass vessels and window and stained glass now coexist with new high-tech products that include for example optical fibers, thin films, metallic, bioactive and hybrid organic-inorganic glasses, amorphous ices or all-solid-state batteries.

Readership: Glass scientists and engineers in academia and industry, teachers and students in materials science and other fields to which glass is relevant; art and industry historians.

Reference • 9781118799420 • Feb-20 • Cloth • 1000pp • US\$649.95
Online ISBN: 9781118801017



Handbook of Fibrous Materials

Jinlian Hu

Fibers have a broad range of applications in diverse fields - from the textile industry to bioengineering, in building and civil engineering, materials science, optics, life science and communication. As the development of fibrous materials and fiber processing technology continues, emerging materials and new functions are discovered, extending their applications to new areas. *Handbook of Fibrous Materials* reviews the state-of-the-art of fibrous materials and provides a broad overview of their uses in research and development.

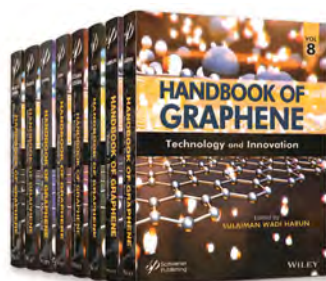
Volume One focuses on the classes of fibers, their production and characterization.

Volume Two focuses on applications of fibrous materials, including emerging applications in the areas of energy, environmental science and healthcare.

Editor **Jinlian Hu** is Professor in The Institute of Textiles and Clothing at The Hong Kong Polytechnic University, Hong Kong. She has published more than 300 publications and has received numerous scientific awards, including the 2001 Award for Distinguished Achievement from the US Fiber Society. She is a Fellow of the Textile Institute and of the Hong Kong Institution of Textile and Apparel and Editor-in-Chief for Research Journal of Textiles and Apparel.

Readership: Materials scientists, polymer chemists, chemists in industry, textile engineers, natural products chemists.

2-Volume Set • Reference • 9783527342204 • Apr-20 • Cloth • 1040pp • US\$540.00
Online ISBN: 9783527342587



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Handbook of Graphene

(Edited by) Edvige Celasco, Alexander N. Chaika, Tobias Stauber, Mei Zhang, Cengiz Ozkan, Umit S. Ozkan, Barbara Palys, Sulaiman Wadi Harun

The Handbook of Graphene bring an interdisciplinary perspective to accomplish a more detailed understanding of the interplay between the synthesis, structure, characterization, processing, applications and performance of the advanced materials. This reference includes 140 chapters from world renowned experts, covering the emerging issues concerning graphene materials and provide a shared platform for both researcher and industry.

Volume 1: Growth, Synthesis, and Functionalization

Volume 2: Physics, Chemistry and Biology

Volume 3: Graphene-like 2D Materials

Volume 4: Composites

Volume 5: Energy, Healthcare, and Environmental

Volume 6: Biosensors and Advanced Sensors

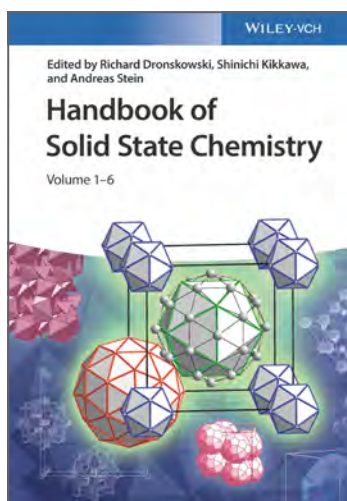
Volume 7: Biomaterials

Volume 8: Technology and Innovations

Editor **Sulaiman Wadi Harun** is a full professor at the Department of Electrical Engineering, University of Malaya, and has nearly 20 years of research experience in the development of optic fiber devices. Professor Harun has published more than 700 articles in ISI Journals and has received the prestigious award of Malaysian Rising Star 2016 from the Ministry of Higher Education for his contribution in international collaboration.

Readership: Materials scientists, chemists and physicists.

8-Volume Set • Reference • 9781119459903 • Jun-19 • Cloth • 4746pp • US\$2,199.95
Online ISBN: 9781119468455



Handbook of Solid State Chemistry

(Edited by) Richard Dronskowski, Shinichi Kikkawa & Andreas Stein

This most comprehensive and unrivaled compendium in the field provides an up-to-date account of the chemistry of solids, nanoparticles and hybrid materials. Written by about 150 international leading experts, *Handbook of Solid State Chemistry* provides the latest knowledge available on solid state chemistry, from the synthesis to modern methods of structure determination. Emphasis is placed throughout on the design and structure of solids, as well as practical applications of these novel materials in real chemical situations.

Volume 1: Materials and Structure of Solids • Volume 2: Synthesis • Volume 3: Characterization • Volume 4: Nano and Hybrid Materials • Volume 5: Theoretical Description • Volume 6: Applications: Functional Materials

Readership: Solid State Chemists, Physical Chemists, Spectroscopists, Theoretical Chemists, Materials Scientists, Libraries, Solid State Physicists, Chemists in Industry.

6-Volume Set • Reference • 9783527325870 • Jul-17 • Cloth • 3756pp • US\$1,752.50
Online ISBN: 9783527691036

MECHANICAL ENGINEERING



Encyclopedia of Maritime and Offshore Engineering

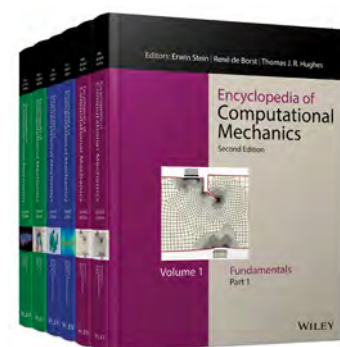
(Editors-in-Chief) John Carlton, Yoo-Sang Choo & Paul Jukes

The *Encyclopedia of Maritime and Offshore Engineering* provides an unparalleled major reference work covering the design, construction and operation of ships, offshore installations and other marine structures used for transportation, exploration and the exploitation of ocean-based resources including oil, gas and renewable energy. Advances in ship technology, the growth of the offshore energy sector, and increasing activities in arctic and ultra-deepwater environments all highlight the need for an up-to-date reference work on the proposed scale.

Volume 1: Part 1 General • Volume 2: Part 2 Marine • Volume 3: (continue) Part 2 Marine • Volume 4: Part 3 Offshore • Volume 5: (continue) Part 3 Offshore • Volume 6: (continue) Part 3 Offshore

Readership: Professional engineers and technical managers; educators and trainers; industry analysts and researchers; senior undergraduate and postgraduate level students and researchers.

6-Volume Set • Reference • 9781118476352 • May-18 • Cloth • 4320pp • US\$2,095.00
Online ISBN: 9781118476406



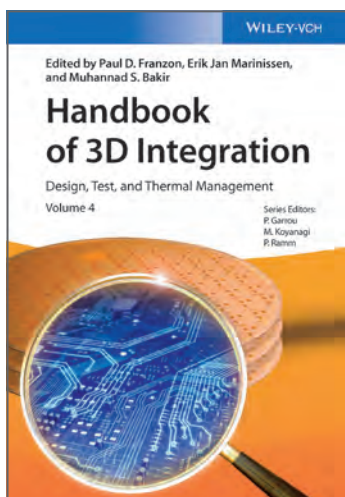
Encyclopedia of Computational Mechanics, 2nd Edition

(Editors) Erwin Stein, René de Borst & Thomas J. R. Hughes

The leading major reference work in computational engineering, *Encyclopedia of Computational Mechanics* has, once again, been prepared under the guidance of three of the world's foremost experts in the field - completely updated and expanded from three to six full volumes to give readers a more in-depth and complete understanding of the topic. With contributions from more than 50 leading experts drawn from around the globe, this is an essential and comprehensive reference for any university engineering department or corporation, containing must-have, up-to-date content of huge value to researchers, students and practitioners alike.

Volume 1: Fundamentals – Part 1 • Volume 2: Fundamentals – Part 2 • Volume 3: Solids and Structures – Part 1 • Volume 4: Solids and Structures – Part 2 • Volume 5: Fluids – Part 1 • Volume 6: Fluids – Part 2

6-Volume Set • Reference • 9781119003793 • Sep-17 • Cloth • 4024pp • US\$2,594.75
Online ISBN: 9781119176817 • Previous print edition: 9780470846995



Handbook of 3D Integration

(Series Editors) Philip Garrou, Mitsumasa Koyanagi & Peter Ramm

Handbook of 3D Integration was the first encompassing treatise on the accomplished developments, technologies and applications for three-dimensional electronic circuitry. This landmark handbook is edited and authored by key contributors from top research institutions and high-tech companies.

Volumes 1 and 2 introduces the necessary goals, existing issues and relates 3D integration to the semiconductor roadmap of the industry. Processing technology and 3D structure fabrication strategies are covered in detail, followed by application fields and an outlook on the future of 3D integration.

Volume 3 covers the intricate details of 3D process technology, with a focus on silicon via formation, bonding and debonding, thinning, via reveal and backside processing, both from a technological and a materials science perspective.

Volume 4 focuses on the design, testing, and thermal management of 3D-integrated circuits, both from a technological and materials science perspective. It provides an overview of the latest developments in 3D chip design, test methods used to assess the quality and reliability, and thermal management and advanced cooling technologies and their integration.

Readership: Materials scientists, semiconductor physicists, semiconductor industry, IT engineers and electrical engineers.

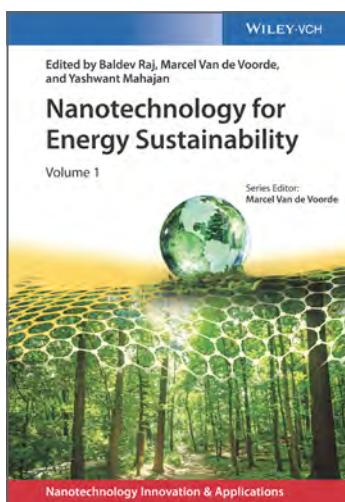
Volume 1 and 2 • Reference • 9783527332656 • Sep-12 • Paper • 799pp • US\$205.00

Volume 3 • Reference • 9783527334667 • Jun-14 • Cloth • 474pp • US\$176.75

Online ISBN: 9783527670109

Volume 4 • Reference • 9783527338559 • Feb-19 • Cloth • 488pp • US\$215.00

Online ISBN: 9783527697052



Nanotechnology for Energy Sustainability

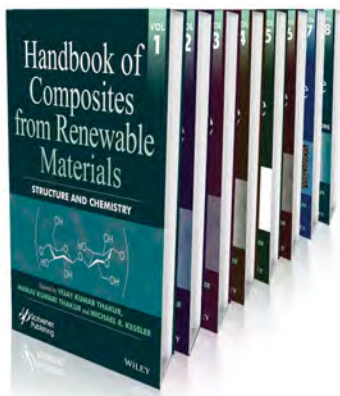
(Edited by) Baldev Raj, Marcel Van de Voorde & Yashwant Mahajan

Nanotechnology for Energy Sustainability provides a detailed overview of nanotechnology as it is applied to energy sustainability. Clearly structured, following an introduction, the first part of the book is dedicated to energy production, renewable energy, energy storage, energy distribution, and energy conversion and harvesting. The second part then goes on to discuss nano-enabled materials, energy conservation and management, technological and intellectual property-related issues and markets and environmental remediation. The text concludes with a look at and recommendations for future technology advances.

Readership: Materials scientists, environmental chemists, power engineers, energy supplying companies, engineers in power technology and chemical engineers.

3-Volume Set • Reference • 9783527340149 • Feb-17 • Cloth • 1316pp • US\$670.75

Online ISBN: 9783527696109



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Handbook of Composites from Renewable Materials

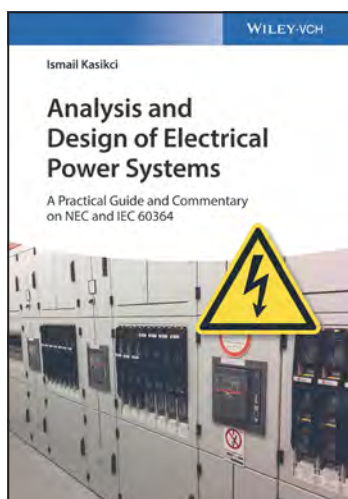
(Edited by) Vijay Kumar Thakur, Manju Kumari Thakur & Michael R. Kessler

The Handbook of Composites from Renewable Materials comprises of eight individual volumes that brings an interdisciplinary perspective to accomplish a detailed understanding of the interplay between the synthesis, structure, characterization, processing, applications and performance of these advanced materials. The handbook covers a multitude of natural polymers/ reinforcement/ fillers and biodegradable materials.

Readership: Researchers, engineers and students both in academia and industry in the field of materials science especially polymer composites; engineers in automotive, marine, aerospace, construction, wind energy and consumer goods industries.

8-Volume Set • Reference • 9781119224365 • Apr-17 • Cloth • 4400pp • US\$2,053.95
Online ISBN: 9781119441632

POWER ELECTRONICS



Analysis and Design of Electrical Power Systems

A Practical Guide and Commentary on NEC and IEC 60364

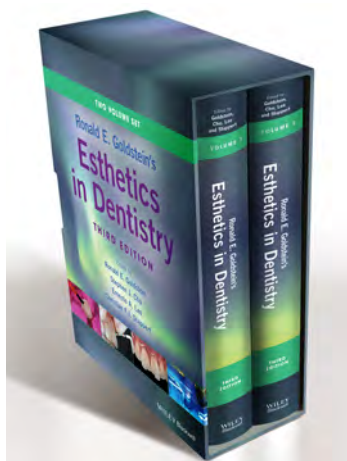
Ismail Kasikci

Due to the great number of standards in electrical engineering, their revision in regular intervals as well as to their increasing international harmonization, maintaining this knowledge is becoming more and more difficult. This book helps planning engineers in the design and application of low voltage networks. Structured according to the type of electrical system, e.g., asynchronous motors, three-phase networks or lighting systems, it covers the respective electrical and electrotechnical fundamentals, provides information on the implementation of the relevant NEC and IEC standards and gives an overview of applications in industry.

Readership: Electrical engineers, Engineers in Power Technology, Electrotechnical industry, Engineering consultants, Chemical engineers, Physicists in Industry, Libraries.

Reference • 9783527341375 • Jun-20 • Cloth • 1000pp • US\$470.00
Online ISBN: 9783527803422

DENTISTRY



Ronald E. Goldstein's Esthetics in Dentistry, 3rd Edition

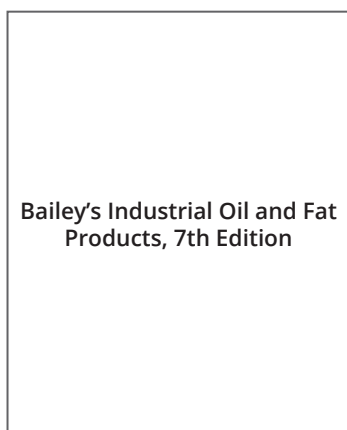
(Edited by) Ronald E. Goldstein, Stephen J. Chu, Ernesto A. Lee & Christian F. J. Stappert

The new edition of *Ronald E. Goldstein's Esthetics in Dentistry* provides a thoroughly updated and expanded revision to the definitive reference of esthetic and cosmetic dentistry. The book is richly illustrated, with more than 3,700 beautiful photographs and drawings to depict the concepts described. This exhaustive, comprehensive text covers the full scope of esthetic dentistry, from principles and treatments to specific challenges and complications. Twenty-three new chapters cover recent advances in the field, and clinical case studies and treatment algorithms have been added to the world-class coverage.

Readership: Cosmetic and esthetic dentistry practitioners, oral and maxillofacial surgeons, practicing dentists.

2-Volume Set • Reference • 9781119272830 • Jul-18 • Cloth • 1576pp • US\$399.95
Online ISBN: 9781119272946

FOOD SCIENCE & TECHNOLOGY



Bailey's Industrial Oil and Fat Products, 7th Edition

Fereidoon Shahidi

First published in 1945, Bailey's has become the standard reference on the food chemistry and processing technology related to edible oils and the nonedible by-products derived from oils. The 7th edition of this exhaustively comprehensive bible of oils and fats processing has been fully updated and revised throughout to reflect the latest industry trends and technical developments. The new edition expands to 114 chapters over seven volumes, including a brand new volume dedicated to lipids and health, and covers new topics such as analysis of lipid triacylglycerols; camelina and other high alpha-linolenic acid oils; medium-chain oils; sterols and waxes; fats and oils in fish feed formulation; new zero trans formulations and marine oils as biodiesel.

Volume 1: Chemistry, Properties, and Safety Aspects

Volume 2: Edible Oils

Volume 3: Specialty Oils and Oil Products

Volume 4: Products and Applications

Volume 5: Processing Technologies

Volume 6: Industrial and Nonedible Products from Oils and Fats

Volume 7: Lipids and Health

7-Volume Set • Reference • 9781119257882 • May-20 • Cloth • 4200pp • US\$1,980.00
Online ISBN: 9781119257899 • Previous print edition: 9780471384601

Coffee – Growing, Processing,
Sustainable Production,
3rd Edition



Coffee – Growing, Processing, Sustainable Production, 3rd Edition

A Guidebook for Growers, Processors, Traders, and Researchers

Jean Nicolas Wintgens

Coffee is, after wheat and sugar, the third most important food commodity, with an annual market in excess of multi billion US\$. Capturing the entire value creation chain with rich illustrations of over 900 color photographs, drawings and diagrams, *Coffee* describes methods of coffee cultivation, harvesting, processing, storage, quality assessment, and economics. It incorporates latest research on the coffee plant, its pests and diseases, as well as biotechnological methods for improved breeds. It also addresses the long-term sustainability of current coffee production methods, showing modern alternatives to traditional practices.

Readership: Food technologists, agricultural scientists, food industry, botanists, food chemists.

2-Volume Set • Reference • 9783527339815 • Jul-20 • Cloth • 1200pp • US\$470.00

Online ISBN: 9783527695010 • Previous print edition: 9783527322862

Comprehensive Postharvest
Biology and Technology
of Fruits and
Vegetables



Comprehensive Postharvest Biology and Technology of Fruits and Vegetables

Sunil Pareek

The understanding of the developmental physiology, biochemistry, and molecular biology during early growth, maturation, ripening, and postharvest conditions has improved technologies to maintain the shelf life and quality of fruits and vegetables. *Comprehensive Postharvest Biology and Technology of Fruits and Vegetables* provides a comprehensive introduction to this subject, offering a firm grounding in the basic science and branching out into the technology and practical applications.

Readership: Food scientists, postharvest researchers and industries, and graduate and postgraduate level students.

7-Volume Set • Reference • 9781119488361 • Sep-20 • Cloth • 5700pp • US\$1,760.00

Online ISBN: 9781119488392

EDITED BY
YUNES RAMADAN AL-TEINAZ
STUART SPEAR IBRAHIM H. A. ABD EL-RAHIM



WILEY Blackwell



The Halal Food Handbook

(Edited by) Yunes Ramadan Al-Teinaz, Stuart Spear & Ibrahim H. A. Abd El-Rahim

This accessible, authoritative book covers all aspects of Halal from its origins through to how we expect Halal to develop in the coming years. Written and edited by leading international experts, *The Halal Food Handbook* explains what Halal is, where it came from, how it is practiced, and by whom. In addition to putting Halal in a religious and cultural context, the book provides a set of good practice standards for those working in the Halal trade.

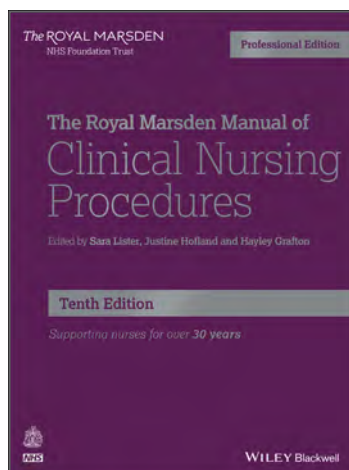
Part 1: What is Halal • **Part 2:** Animal Welfare, and Slaughter • **Part 3:** Halal Ingredients, and Food Production • **Part 4:** Halal Standards, Procedures and Certification • **Part 5:** Food Law, Regulations, and Food Fraud • **Part 6:** Halal v Kosher, and Dialogue Between 'Science, Society and Religion' about Religious Slaughter • **Part 7:** Halal in Different Countries

Readership: Muslim scholars, Halal food producers, food scientists, technicians and students, local authorities and food enforcement officers, government departments, Halal certifiers and academics; general retailers, regulators and certifying authorities.

Reference • 9781118823125 • Feb-20 • Cloth • 504pp • US\$132.00

Online ISBN: 9781118823026

GENERAL CLINICAL NURSING



The Royal Marsden Manual of Clinical Nursing Procedures, 10th Edition

(Edited by) Sara Lister, Justine Hofland & Hayley Grafton

Now in its tenth edition, *The Royal Marsden Manual of Clinical Nursing Procedures* has been the definitive, market-leading guide to clinical nursing skills for over three decades. This internationally best-selling title sets the gold standard for nursing care; providing the procedures, rationale, and guidance required by qualified nurses to deliver clinically effective, patient-focused care with expertise and confidence. With over two-hundred detailed procedures, this comprehensive manual presents the evidence and underlying theory alongside full-colour illustrations and photographs, and includes coverage of infection prevention and control, perioperative care, wound management, nutrition, diagnostic testing, discharge, medicines management, and much more.

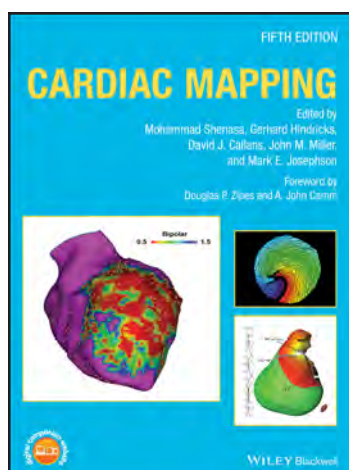
Readership: Qualified nurses working in hospital settings.

Professional edition • Reference • 9781119510970 • May-20 • Cloth • 1272pp • US\$115.00
Previous print edition: 9781118745922

Student edition • Reference • 9781119532965 • Dec-20 • Paper • 848pp • US\$TBA
Previous print edition: 9781118746677



MEDICAL SCIENCE



Cardiac Mapping, 5th Edition

(Edited by) Mohammad Shenasa, Gerhard Hindricks, David J. Callans, John M. Miller & Mark E. Josephson

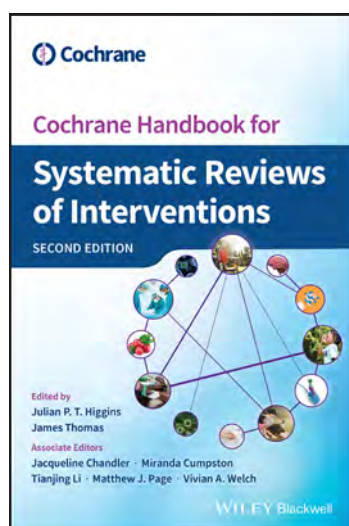
Featuring contributions from a global team of electrophysiologists, this unique, state-of-the-art, stand-alone reference on this dynamic subject builds upon previous editions' comprehensive explanations of the mapping, imaging, and ablation of the heart. Nearly 100 chapters provide fascinating accounts of topics ranging from the mapping of supraventricular and ventricular arrhythmias, emerging new catheter-based techniques, to the increasingly important role of mapping in treating rhythmic abnormalities and compelling extrapolations of how the field might develop in the years to come.

Part I Fundamentals of Cardiac Mapping • **Part II** Imaging Technologies in Cardiac Mapping and Ablation • **Part III** Advances in Technology • **Part IV** Mapping in Experimental Models of Cardiac Arrhythmias • **Part V** Mapping and Imaging in Atrial Fibrillation, Flutter, and Atrial Tachycardias • **Part VI** Mapping of Supraventricular Arrhythmias • **Part VII** Mapping and Imaging of Ventricular Arrhythmias • **Part VIII** Future Directions and Technologies in Cardiac Mapping and Imaging of Cardiac Arrhythmias

Readership: Electrophysiologists and trainees in cardiac electrophysiology, EP lab advanced nurses and technicians, cardiac imaging specialists and clinical cardiologists.

Reference • 9781119152590 • Apr-19 • Cloth • 1304pp • US\$420.00
Online ISBN: 9781119152637 • Previous print edition: 9780470670460



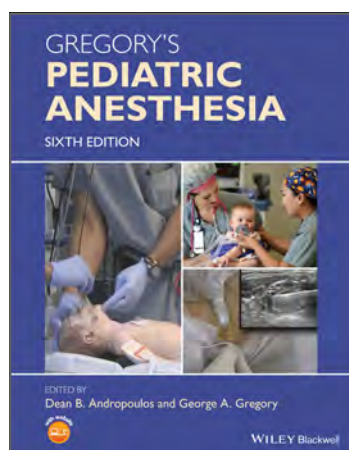


Cochrane Handbook for Systematic Reviews of Interventions, 2nd Edition

(Edited by) Julian P. T. Higgins & James Thomas

Cochrane is the gold standard for conducting systematic reviews in healthcare, and this substantially updated second edition of the *Cochrane Handbook* offers guidance on methodology, methods and standards for Cochrane reviews, providing essential information for both those undertaking a Cochrane Review or the wider health research community seeking to understand Cochrane's rigorous standards.

Reference • 9781119536628 • Oct-19 • Cloth • 728pp • US\$75.00
Online ISBN: 9781119536604 • Previous print edition: 9780470699515



Gregory's Pediatric Anesthesia, 6th Edition

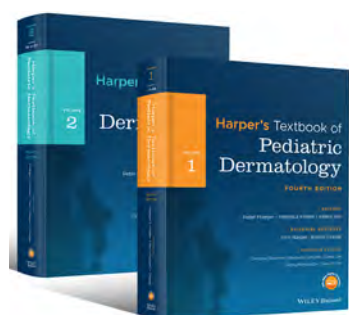
Medical Science

(Edited by) George A. Gregory & Dean B. Andropoulos

As the field pediatric anesthesia advances, so too does the gamut of challenges that are faced by today's anesthesiologists. *Gregory's Pediatric Anesthesia* aims to prepare trainees and experienced professionals for modern practice by equipping them with the knowledge and cutting-edge techniques necessary to safely and successfully anesthetize children for a range of different surgeries and other procedures. Supporting their work with current data and evidence, the authors explore topics including basic principles, potential complications, and best practice, and illustrate their findings with detailed case studies that cover all major subspecialties.

Part 1 Principles of Pediatric Anesthesia • **Part 2** Pediatric Anesthesia Management • **Part 3** Practice of Pediatric Anesthesia • **Part 4** Quality, Outcomes, and Complications in Pediatric Anesthesia

Reference • 9781119371502 • Mar-20 • Cloth • 1344pp • US\$315.00
Online ISBN: 9781119371533 • Previous print edition: 9781444333466



Harper's Textbook of Pediatric Dermatology, 4th Edition

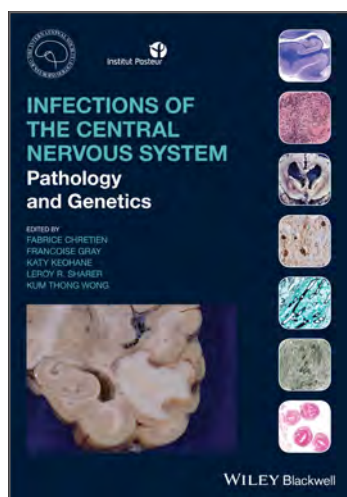
Medical Science

(Editors) Peter H. Hoeger, Veronica Kinsler & Albert C. Yan

Skin disease is a major feature of childhood as immature skin is more susceptible to pathogens and environmental disruption. The presentations, diagnosis and, especially management, of skin diseases in children can be very different from adults. The fourth edition of the Harper classic provides state-of-the-art information on all aspects of skin disease in children. It covers the diagnosis and treatment of all conditions – both common and rare – with a consistently evidence-based approach. Existing content has been refreshed and fully updated to reflect emerging thinking and to incorporate the latest in research and clinical data – especially at the genetic level.

Readership: Pediatric dermatologists, general dermatologists and paediatricians of all levels; dermatology specialist nurses, research scientists in dermatology.

2-Volume Set • Reference • 9781119142195 • Oct-19 • Cloth • 2656pp • US\$415.00
Online ISBN: 9781119142812 • Previous print edition: 9781405176958



Infections of the Central Nervous System

Pathology and Genetics

(Edited by) Fabrice Chretien, Françoise Gray, Katy Keohane, Leroy R. Sharer & Kum Thong Wong

Highly commended at the British Medical Association (BMA) Awards 2019, this new volume from the International Society of Neuropathology series addresses infections of the nervous system, written by expert editors. An expansive and inclusive contents list including rare disorders presented in easily referable chapters, containing; definitions, microbiological characteristics, epidemiology, clinical features, lab tests, pathology, genetics and treatment.

Editor **Kum Thong Wong** is Professor of Pathology, Faculty of Medicine, at the University of Malaya, Malaysia.

Readership: Neurologists, pathologists, neuropathologists, infectious disease physicians and general physicians in Internal Medicine.

Reference • 9781119467762 • Mar-20 • Cloth • 552pp • US\$295.00

Online ISBN: 9781119467748



Holland-Frei Cancer Medicine, 9th Edition

(Edited by) Robert C. Bast, Jr., Carlo M. Croce, William N. Hait, Waun Ki Hong, et al.

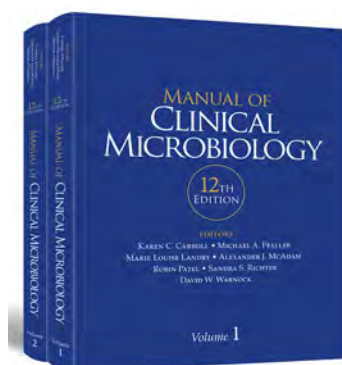
Edited and authored by an international group of some of the best-known oncologists, cancer researchers, surgeons and pathologists in the world, and endorsed by the American Association of Cancer Research, *Holland-Frei Cancer Medicine* offers a genuinely international view of cancer research and clinical oncology practice. This all-new edition integrates cancer biology with cancer management, providing an in depth understanding of the disease, and an emphasis on multidisciplinary, research-driven patient care to improve outcomes and optimal use of all appropriate therapies.

Part 1: Introduction • Part 2: Tumor Biology • Part 3: Quantitative Oncology
• Part 4: Carcinogenesis • Part 5: Epidemiology, Prevention and Detection
• Part 6: Clinical Disciplines • Part 7: Individualized Treatment • Part 8: Chemotherapy • Part 9: Biological and Gene Therapy • Part 10: Special Populations • Part 11: Disease Sites • Part 12: Management of Cancer Complications • Part 13: The Future of Oncology

Readership: Medical oncologists, radiation oncologists, internists, surgical oncologists, and allied specialties involved in the treatment of cancer patients.

Reference • 9781118934692 • Jan-17 • Cloth • 2008pp • US\$311.95

Online ISBN: 9781119000822

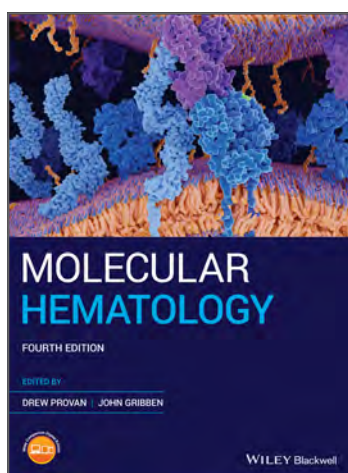


Manual of Clinical Microbiology, 12th edition

(Editors) Karen C. Carroll, Michael A. Pfaller, Marie Louise Landry, Alexander J. McAdam, Robin Patel, Sandra S. Richter & David W. Warnock

The twelfth edition of *Manual of Clinical Microbiology* covers the latest applications of genomics and proteomics, and is filled with current findings regarding infectious agents, leading-edge diagnostic methods, laboratory practices, and safety guidelines. Revised by an international, interdisciplinary team of editors and authors, this authoritative reference also features three new chapters on accreditation, Mycobacterium tuberculosis complex, and human herpesvirus 8.

2-Volume Set • Reference • 9781555819835 • Feb-19 • Cloth • 2468pp • US\$339.95



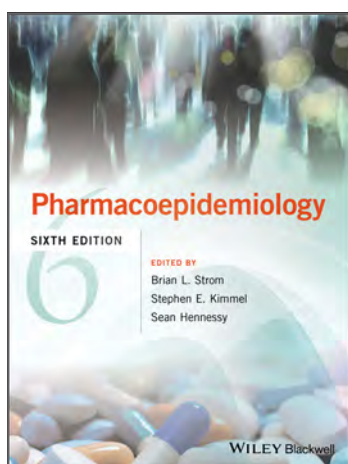
Molecular Hematology, 4th Edition

(Edited by) Drew Provan & John Gribben

Molecular Hematology is a comprehensive resource for hematologists to increase their understanding of the molecular basis of various blood diseases, their pathogenesis, and current and emerging molecular research and therapies. Thoroughly revised and updated to reflect current advances in molecular research, this fourth edition provides overviews of recent advances in cancer-cell biology, with an emphasis on leukemia and lymphoma, new and updated chapters written by an international team of experts in the field, and new full-color charts, graphs, and illustrations.

Readership: Hematologists in training and in practice, molecular biologists and research scientists working in the field of hematology; oncologists.

Reference • 9781119252870 • Oct-19 • Cloth • 424pp • US\$215.00
Online ISBN: 9781119252863 • Previous print edition: 9781405182317



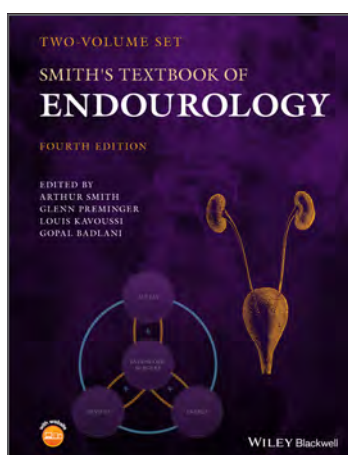
Pharmacoeconomics, 6th Edition

(Edited by) Brian L. Strom, Stephen E. Kimmel & Sean Hennessy

Pharmacoeconomics is the study of the use and effects of drugs in populations. It is primarily concerned with the study of adverse drug effects and quantitative and qualitative assessment of the risk-benefit of drug effects in patient populations. *Pharmacoeconomics* has been fully revised and updated throughout, providing the most comprehensive guidance available for anyone needing up-to-date information in the subject. This classic, field-defining textbook continues to provide a rounded view on all perspectives from academia, industry and regulatory bodies, addressing data sources, applications and methodologies with great clarity.

Readership: Pharmaceutical companies, pharmaceutical scientists and researchers, regulatory bodies, educators, institutions and organisations related to drug safety and drug utilisation research.

Reference • 9781119413417 • Oct-19 • Cloth • 1208pp • US\$300.00
Online ISBN: 9781119413431 • Previous print edition: 9780470654750



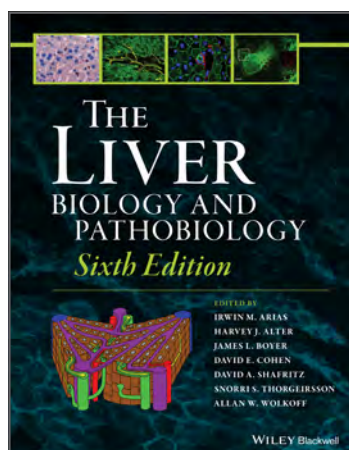
Smith's Textbook of Endourology, 4th Edition

(Edited by) Arthur D. Smith, Glenn Preminger, Louis R. Kavoussi & Gopal H. Badlani

Edited by the father of endourology, Arthur Smith, *Smith's Textbook of Endourology* is the definitive reference book in the field, addressing every aspect of endourologic procedure. The revised fourth edition contains step-by-step review of percutaneous surgery, ureteroscopy, extracorporeal shock wave lithotripsy, laparoscopy, and lower urinary tract procedures, as well as recent changes in robotic and laparoscopic procedures, and image-guided technologies. All chapters are thoroughly revised, including 20 brand new chapters on the most recent advances in endourology, contributions from the world's leading urologists, and full-color references with outstanding and downloadable illustrations throughout.

Readership: Urologists, endourologists and urologic surgeons; general surgeons and specialist urology nurses.

2-Volume Set • Reference • 9781119241355 • Jan-19 • Cloth • 2112pp • US\$425.00
Online ISBN: 9781119245193



The Liver, 6th Edition

Biology and Pathobiology

(Edited by) Irwin M. Arias, Harvey J. Alter, James L. Boyer, David E. Cohen, Snorri Thorgeirsson, David A. Shafritz & Allan W. Wolkoff

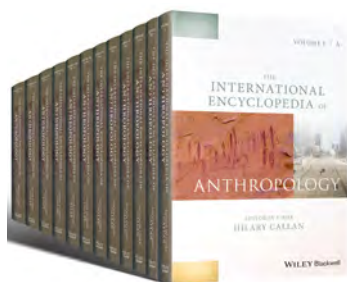
Fully revised throughout with 70 new chapters, *The Liver* continues to set the standard for both the present and the future of hepatology as the premier volume bridging the gap between basic scientific advances and their applications to the understanding of liver disease.

Part One Introduction • **Part Two** The Cells • Section A: Cell Biology of the Liver • Section B: The Hepatocyte • Section C: Transporters, Bile Acids, and Cholestasis • Section D: Non-Hepatocyte Cells • **Part Three** Functions of the Liver • Section A: Metabolic Functions • Section B: Liver Growth and Regeneration • **Part Four** Pathobiology of Liver Disease • **Part Five** Liver Cancer • Part 6: Hepatitis • Part 7: Horizons

Readership: Hepatologists, gastroenterologists, trainees, hepatobiliary and liver transplant surgeons, basic science researchers in hepatology, cell biology and molecular genetic researchers and scientists interested in liver disease, virology and drug metabolism.

Reference • 9781119436829 • Jan-20 • Cloth • 1144pp • US\$349.95

Online ISBN: 9781119436812 • Previous print edition: 9780470723135



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The International Encyclopedia of Anthropology

(Editor-in-Chief) Hilary Callan

With contributions from a team of over 800 international scholars, *The International Encyclopedia of Anthropology* is the most complete reference resource for the field of anthropology and interrelated areas, providing an authoritative and expert overview of the concepts, research, and techniques that together define the discipline. Over 1,000 entries, ranging from concise summaries to longer writings, present the reader with in-depth discussions of hundreds of key topics, as well as biographical entries of many of the world's most influential founding anthropologists.

Volume I: A • Volume II: B-Co • Volume III: Co-Do • Volume IV: Do-E •
Volume V: F-G • Volume VI: H-In • Volume VII: In-Me • Volume VIII: Me-O •
Volume IX: P-Re • Volume X: Re-So • Volume XI: So-T • Volume XII: U-Z

Readership: Students and scholars engaged within the broad and dynamic field of anthropology, and those studying and working within the related disciplines of psychology, medicine, religious studies, and sociology.

12-Volume Set • Reference • 9780470657225 • Jun-18 • Cloth • 7008pp • US\$2,495.00
Online ISBN: 9781118924396

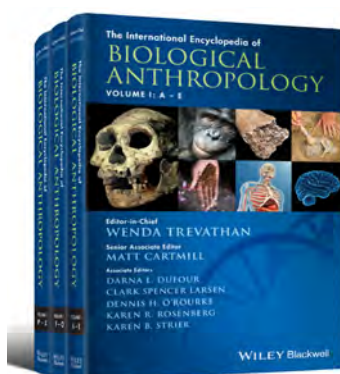
The International Encyclopedia of Biological Anthropology

(Editor-in-Chief) Wenda Trevathan

The International Encyclopedia of Biological Anthropology represents the first comprehensive encyclopedic reference relating to biological anthropology. It has contributions by an international team of scholars, and features more than 450 entries covering topics ranging from ongoing human evolution, paleoanthropology, and non-human primates to paleopathology, forensic anthropology, and bioarchaeology. The encyclopedia also includes interdisciplinary coverage of primatology, human biology, paleoanthropology, anthropological genetics, and the history of biological anthropology.

Readership: Undergraduate students and scholars engaged in the study and practice of biological anthropology and interrelated fields and disciplines.

3-Volume Set • Reference • 9781118584422 • Jul-18 • Cloth • 1744pp • US\$645.00
Online ISBN: 9781118584538



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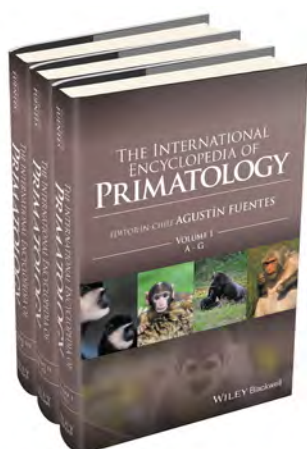
The International Encyclopedia of Primatology

(Editor-in-Chief) Agustin Fuentes

The International Encyclopedia of Primatology represents the first comprehensive reference work to focus on all aspects of the behaviour, biology, evolution, and taxonomy of human and non-human primates. With over 450 entries contributed by an international team of scholars, the Encyclopedia comprehensively explores the latest developments and scientific techniques from the field, covering topics ranging from the history, ecology, captive management and diseases and sexuality of primates to their use in medical research, cognition, conservation, and representations in literature.

Readership: Undergraduate and graduate students in primatology, anthropology, veterinary sciences, medical, biological and zoological sciences; academics and researchers in primatology, commercial and conservation organizations with dedicated primate programs.

3-Volume Set • Reference • 9780470673379 • Mar-17 • Cloth • 1608pp • US\$618.75
Online ISBN: 9781119179313



ARCHAEOLOGY



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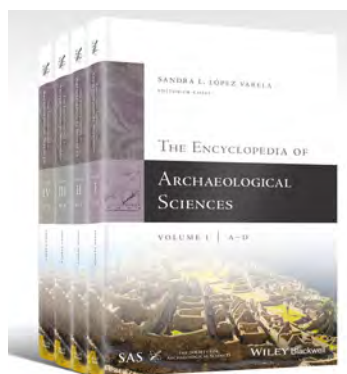


A Companion to the Archaeology of Early Greece and the Mediterranean

(Edited by) Irene S. Lemos & Antonis Kotsonas

A Companion to the Archaeology of Early Greece and the Mediterranean offers an original and inclusive review of two key periods of Greek archaeology, which are typically treated separately—the Late Bronze Age and the Early Iron Age. It presents an in-depth exploration of the society and material culture of Greece and the Mediterranean, from the 14th to the early 7th centuries BC. The two-volume companion sets Aegean developments within their broader geographic and cultural context, and presents the wide-ranging interactions with the Mediterranean.

2-Volume Set • Reference • 9781118770191 • Nov-19 • Cloth • 1464pp • US\$420.00
Online ISBN: 9781118769966



The Encyclopedia of Archaeological Sciences

(Editor-in-Chief) Sandra L. López Varela

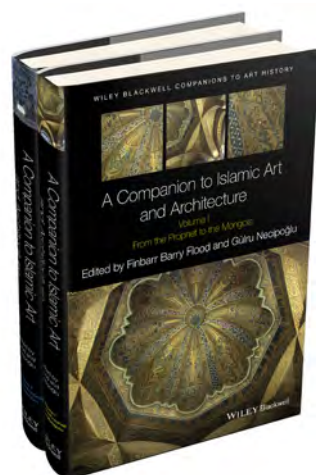
The Encyclopedia of Archaeological Sciences provides an authoritative and comprehensive overview of the scientific concepts and techniques that have shaped the contemporary discipline of archaeology. Sponsored by the Society for Archaeological Sciences, this is an essential resource on core topics in the integration of scientific methods into archaeological practice with extensive coverage on subjects of interdisciplinary interest. In a four-volume set comprised of over 480 entries as selected by leading researchers in the field, this encyclopedic reference work represents the contributions of scholars working all over the world, making this a truly international resource.

Volume I: A - D • Volume II: E - L • Volume III: M - R • Volume IV: S - Z

Readership: Students, researchers, and professionals in anthropology and archaeology as well as other disciplines.

4-Volume Set • Reference • 9780470674611 • Oct-18 • Cloth • 1992pp • US\$875.00
Online ISBN: 9781119188230

ART HISTORY & THEORY



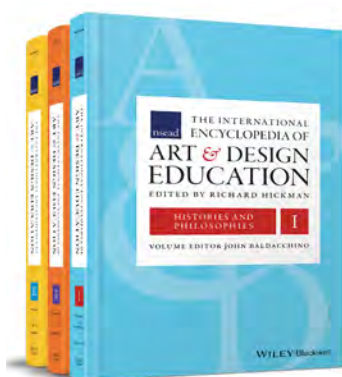
A Companion to Islamic Art and Architecture

(Edited by) Finbarr Barry Flood & Gulru Necipoglu

Companion to Islamic Art and Architecture bridges a gap in the field between monograph and survey text by providing a new level of access and interpretation to Islamic art. The more than 50 specially commissioned essays revisit canonical topics, and include original approaches and scholarship on neglected aspects. Essays are preceded by a general introduction in volume one that outlines approaches, concepts, frameworks, and historiographies.

Readership: Scholars and the educated public, graduate and undergraduate students of Islamic art, specialists of Late Antiquity, western medievalists, Byzantinists, South and East Asianists, Africanists, Renaissance scholars and early modernists, modernists, others working in the fields of art and architectural history, archaeology, material culture, anthropology, history, historiography, cultural studies, orientalism, transcultural studies, Mediterranean studies, religious studies, Islamic studies.

2-Volume Set • Reference • 9781119068662 • Jul-17 • Cloth • 1448pp • US\$410.95
Online ISBN: 9781119069218



The International Encyclopedia of Art and Design Education

(Edited by) Richard Hickman

Written in conjunction with The National Society for Education in Art and Design, the *International Encyclopedia of Art and Design Education* offers an indispensable resource for students, scholars, and researchers working in the field of art and design education. It contains accessible introductions to key topics, concepts, and thinkers, as well as sophisticated debates on contentious areas, covering the whole age range from early years to post-university in formal and informal settings. This multi-volume reference work examines historical and contemporary art and design education worldwide, from over thirty different countries, in Africa, Europe Asia, Middle East, Australasia and the Americas.

Volume I Histories and Philosophies • Part I Histories • Part II Philosophies

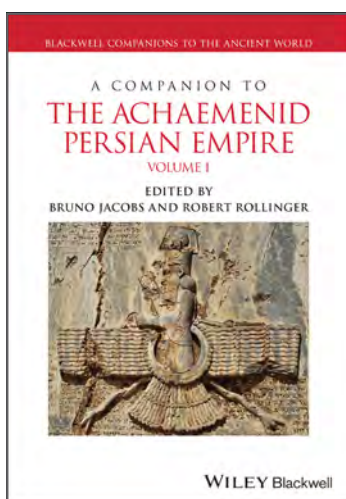
Volume II Curriculum • Part I World Regions • Part II Educational Levels
• Part III Content, Concepts, and Skills • Part IV Inclusive Curriculum •
Part V Community and Policy

Volume III Pedagogy • Part I Making, Places, and Sites • Part II Artists, Teachers, and Learners • Part III Community, Ethics, and Politics •
Part IV Concepts, Cognition, and Futures

Readership: Art and design students, educators, scholars, artists, researchers, and teachers across the English-speaking world, e.g., with particular emphasis on the Japanese, Chinese, Austral-Asian and American markets.

3-Volume Set • Reference • 9781118978078 • Jan-19 • Cloth • 1856pp • US\$644.95
Online ISBN: 9781118978061

CLASSIC STUDIES

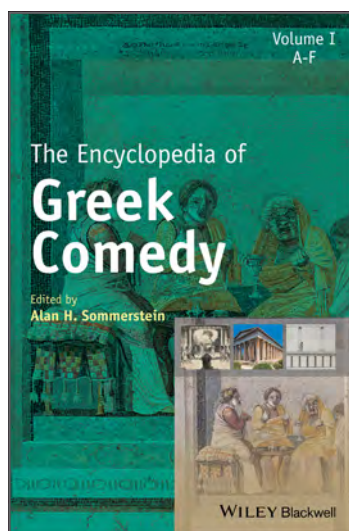


A Companion to the Achaemenid Persian Empire

(Edited by) Bruno Jacobs & Robert Rollinger

A Companion to the Achaemenid Persian Empire takes into account all relevant historical sources, including archaeological ones. It places particular emphasis on looking at the Achaemenid Empire from its different centers, paying just as much attention to the widely neglected eastern parts as to the commonly covered western parts of the empire. The book considers, not only its political history, but also its social, economic, and religious history, institutions, and art and science, in an effort to draw a complete picture of the empire and to foster an appreciation for its lasting reputation.

2-Volume Set • Reference • 9781119174288 • Aug-20 • Cloth • 1176pp • US\$420.00
Online ISBN: 9781119071860



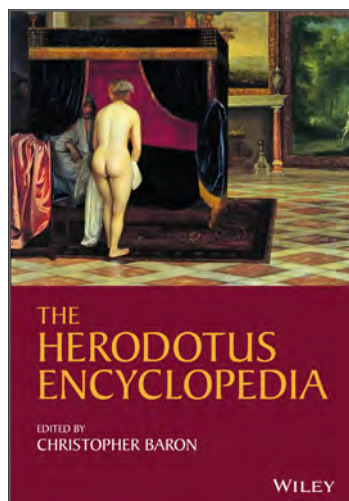
The Encyclopedia of Greek Comedy

(Edited by) Alan H. Sommerstein

The Encyclopedia of Greek Comedy is a comprehensive and accessible reference covering all of Greek comedy and its reception from antiquity to the present. Under the editorship of an esteemed expert, it brings together the work of an international group of some 200 established and rising scholars. The Encyclopedia contains more than 1300 entries, organized in A-Z format, which explore a wide range of important topics, as well as cross-references and an index of authors and plays.

Readership: Scholars, graduate students, and upper-level undergraduates studying ancient Greek comedy in departments of classics, ancient studies or drama.

3-Volume Set • Reference • 9781118605042 • Apr-19 • Cloth • 1184pp • US\$630.00
Online ISBN: 9781118542842



The Herodotus Encyclopedia

(Edited by) Christopher Baron

The Herodotus Encyclopedia surveys the current state of knowledge and understanding of Herodotus' work, and discusses past, current, and emerging approaches to the text. More than 2,500 entries cover the individuals, peoples, and places Herodotus names in his *Histories*, the composition of and central themes in his work, and the historical, social, intellectual, and literary context of the period. Featuring contributions from an international team of more than 180 scholars, many entries also explore the text's scholarship and reception from antiquity up to the present day.

Readership: Scholars in classics and related fields, instructors and professors who cover Herodotus in their courses, research libraries, and students of ancient Greek history and literature.

3-Volume Set • Reference • 9781118689646 • Sep-20 • Cloth • 2200pp • US\$TBA
Online ISBN: 9781118689585

GEOGRAPHY



The International Encyclopedia of Geography

People, the Earth, Environment, and Technology

(Editor-in-Chief) Douglas Richardson

2017 CHOICE Outstanding Academic Title Winner, 2018 RUSA Dartmouth Medal – Honorable Mention

The International Encyclopedia of Geography arises from an unprecedented collaboration between Wiley and the American Association of Geographers (AAG) to review and define the concepts, research, and techniques in geography and interrelated fields. With contributions from a global team of 900 scholars hailing from over 40 countries, the Encyclopedia includes over 1,000 entries, more than 1,000 full-color photographs and illustrations, editorial introduction, lexicon by subject, index, and a listing of geographical associations - providing a comprehensive and authoritative overview of geography around the world.

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Online ISBN: 9781118786352



A Companion to U.S. Foreign Relations

Colonial Era to the Present

(Edited by) Christopher R. W. Dietrich

A Companion to U.S. Foreign Relations is an authoritative reference work of the history of American diplomacy, the history of its effects on the wider world, and the history of diplomacy's role in shaping the American past and present. Its penetrating essays by distinguished historians offer thoughtful and thorough perspectives on the foreign policies of the United States and the domestic and international contexts in which they occurred. It is indispensable for anyone who wishes to understand the history of U.S. foreign relations and the background to more recent debates of U.S. power in the world.

2-Volume Set • Reference • 9781119166108 • Mar-20 • Cloth • 1100pp • US\$425.95
Online ISBN: 9781119166139



The Encyclopedia of Diplomacy

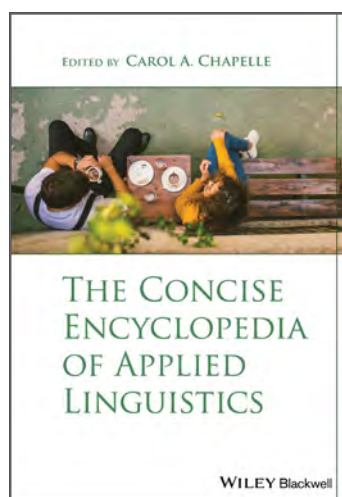
(Edited by) Gordon Martel

The Encyclopedia of Diplomacy is a comprehensive 4-volume compendium of the most important events, people and terms associated with diplomacy from ancient times to the present. Essays by experts on aspects and types of diplomacy provide insightful introductions to wide-ranging issues from a global perspective. Entries focus attention on leading practitioners and theorists of diplomacy and its theorists, both in current times and in the past. A lexicon, general maps, and an extensive index are provided to help readers navigate this work.

Volume I: A–C • Volume II: D–I • Volume III: J–P • Volume IV: Q–Z

Readership: Scholars and students of War & Peace Studies, Political Science and International Relation, practising diplomats.

4-Volume Set • Reference • 9781118887912 • Mar-18 • Cloth • 2168pp • US\$878.75
Online ISBN: 9781118885154



The Concise Encyclopedia of Applied Linguistics

(Edited by) Carol A. Chapelle

This abridged reference work has been compiled from the most-accessed entries from *The Encyclopedia of Applied Linguistics* (www.encyclopediaofappliedlinguistics.com), the more extensive volume which is available in print and digital format in 1000 libraries spanning 50 countries worldwide. Alphabetically-organized and updated entries help readers gain an understanding of the essentials of the field with entries on topics such as multilingualism, language policy and planning, language assessment and testing, translation and interpreting, and many others.

Readership: Students of applied linguistics and researchers in the field.

Reference • 9781119147367 • Nov-19 • Paper • 1288pp • US\$59.95

The Handbook of Asian Englishes



Edited by
**Kingsley Bolton, Werner Botha,
and Andy Kirkpatrick**

WILEY Blackwell



The Handbook of Asian Englishes

(Edited by) Kingsley Bolton, Werner Botha & Andy Kirkpatrick

The Handbook of Asian Englishes provides wide-ranging coverage of the historical and cultural context, contemporary dynamics, and linguistic features of English in use throughout the Asian region. This first-of-its-kind volume offers a wide-ranging exploration of the English language throughout nations in South Asia, Southeast Asia, and East Asia. Contributions by a team of internationally-recognized linguists and scholars of Asian Englishes and Asian languages survey existing works and review new and emerging areas of research in the field.

Editor **Kingsley Bolton** is Professor at Nanyang Technological University, Singapore, and co-Editor of the journal *World Englishes*, Executive Director of the International Association for World Englishes. Editor **Werner Botha** is Assistant Professor at Nanyang Technological University, Singapore. His published research includes articles on language variation, educational linguistics, and the sociolinguistics of English in higher education in Singapore and China.

Readership: Undergraduate and graduate students, researchers, and instructors across the areas of contact linguistics, *World Englishes*, sociolinguistics, and Asian language studies.

Reference • 9781118791806 • Aug-20 • Cloth • 848pp • US\$TBA
Online ISBN: 9781118791882

The Handbook of Language Contact

Second Edition



Edited by
Raymond Hickey

WILEY Blackwell



The Handbook of Language Contact, 2nd Edition

(Edited by) Raymond Hickey

Language contact is a dynamic area of contemporary linguistic research that studies how language changes when speakers of different languages interact. Accessibly structured into three sections, *The Handbook of Language Contact* explores the role of contact studies within the field of linguistics, the value of contact studies for language change research, and the relevance of language contact for sociolinguistics. This authoritative volume presents original findings and fresh research directions from an international team of prominent experts. Thirty-seven specially-commissioned chapters cover a broad range of topics and case studies of contact from around the world.

Readership: Researchers, scholars, and students involved in language contact, language variation and change, sociolinguistics, bilingualism, and language theory.

Reference • 9781119485025 • Jul-20 • Cloth • 796pp • US\$170.00
Online ISBN: 9781119485094 • Previous print edition: 9781405175807

The Handbook of Psycholinguistics



Edited by
**Eva M. Fernández
and Helen Smith Cairns**

WILEY Blackwell



The Handbook of Psycholinguistics

(Edited by) Eva M. Fernandez & Helen Smith Cairns

Incorporating approaches from linguistics and psychology, *The Handbook of Psycholinguistics* explores language processing and language acquisition from an array of perspectives and features cutting edge research from cognitive science, neuroscience, and other related fields. It presents a comprehensive review of the current state of the field, with an emphasis on research trends most likely to determine the shape of psycholinguistics in the years ahead.

Readership: Researchers in psychology, linguistics, and cognitive science; advanced undergraduates and graduate students interested in how language works in the human mind.

Reference • 9781119096528 • Jul-20 • Paper • 816pp • US\$TBA
Online ISBN: 9781118829523



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The Handbook of TESOL in K-12

(Edited by) Luciana C. de Oliveira

The first handbook to explore the field of Teaching English to Speakers of Other Languages in elementary and secondary education (K-12), *The Handbook of TESOL in K-12* combines contemporary research and current practices to provide a comprehensive overview of the origins, evolution, and future direction of TESOL in K-12, covering topics ranging from bilingual language development and technology-enhanced language learning, to ESOL preparation methods for specialist and mainstream teachers and school administrators.

Section 1 Key Issues in Teaching ESOL Students in K-12 •

Section 2 Pedagogical Issues and Practices in TESOL in K-12 Education •

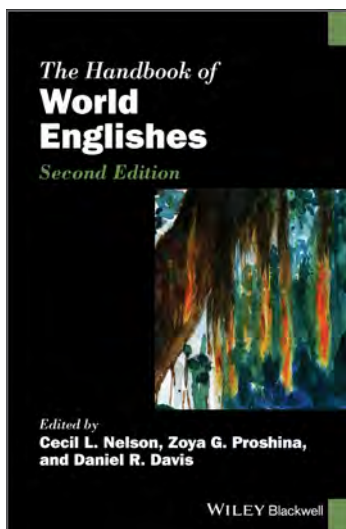
Practices and Pedagogies for TESOL in K-12 Education • Teaching Skills and

Content Areas • **Section 3** School Personnel Preparation for TESOL in K-12

Readership: Undergraduate and graduate students, researchers and scholars, and educators in the field of Teaching English to Speakers of Other Languages in elementary and secondary education.

Reference • 9781119421740 • Apr-19 • Cloth • 464pp • US\$215.00

Online ISBN: 9781119421702



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The Handbook of World Englishes, 2nd Edition

(Edited by) Cecil L. Nelson, Zoya G. Proshina & Daniel R. Davis

The Handbook of World Englishes is a collection of articles on the cross-cultural and transnational linguistic convergence and change of the English language. The second edition brings together multiple theoretical, contextual, and ideological perspectives, and offers new interpretations of the changing identities of world Englishes (WE) speakers and examines the current state of the English language across the world. Thematically integrated contributions from leading scholars and researchers explore the expansion, modification, and adaptation of English in various settings and discuss the role of English in local, regional, and global contexts.

Readership: Academics, researchers, practitioners, and advanced students in fields including applied linguistics, language teaching, the history of the English language, world literatures, and related social and language sciences.

Reference • 9781119164210 • Nov-19 • Cloth • 848pp • US\$194.95

Online ISBN: 9781119147282 • Previous print edition: 9781405111850



The TESOL Encyclopedia of English Language Teaching

(Editor-in-Chief) John I. Lontas

2019 PROSE Award Subject Category Winner – Multivolume Reference/ Humanities

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The definitive reference in the field of English language teaching *The TESOL Encyclopedia of English Language Teaching* explores the theoretical and practical aspects of English language instruction by providing an essential, go-to reference resource for educators, professionals, researchers, and students world-wide. Over 750 entries written by leading practitioners and scholars from around the globe reflect the collaborative efforts of a truly international team of editors and advisory board members.

Volume I Teaching English as an International Language

Volume II Approaches and Methods in English for Speakers of Other Languages • Non-Native English-Speaking Teachers (NNESTs)

Volume III Teaching Listening • Teaching Speaking and Pronunciation

Volume IV Teaching Reading • Teaching Writing

Volume V Teaching Grammar • Teaching Vocabulary

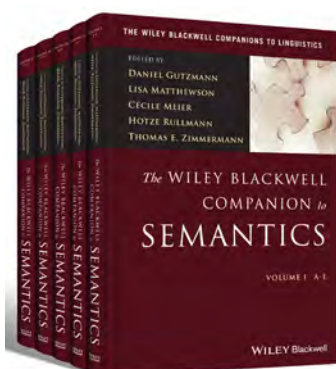
Volume VI Sociocultural Aspects of English Language Teaching • Teaching and Technology

Volume VII Organizational and Administrative Issues • Teacher Training and Professional Development

Volume VIII Assessment and Evaluation

Readership: ELT/ESL practitioners.

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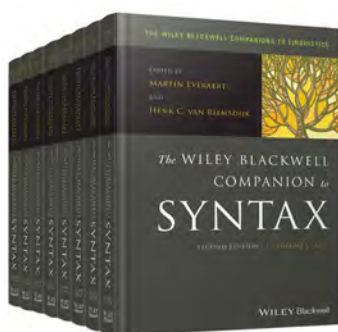
The Wiley Blackwell Companion to Semantics

(Edited by) Daniel Gutzmann, Lisa Matthewson, Cecile Meier, Hotze Rullmann & Thomas E. Zimmerman

The Wiley Blackwell Companion to Semantics provides a thorough investigation of issues and phenomena central to the development of modern semantics and its interfaces. Presenting in-depth chapters written by leading experts in the field, this book investigates competing analyses and approaches, examines their conceptual foundations, and evaluates them as applied to various languages. Presenting over 100 case studies, the collection of chapters within this Companion is organized in alphabetical order for ease of reference.

Readership: Scholars, researchers, academics, and students in linguistics and related areas.

5-Volume Set • Reference • 9781118788318 • Aug-20 • Cloth • 3520pp • US\$795.00
Online ISBN: 9781118788516



The Wiley Blackwell Companion to Syntax, 2nd Edition

(Edited by) Martin Everaert

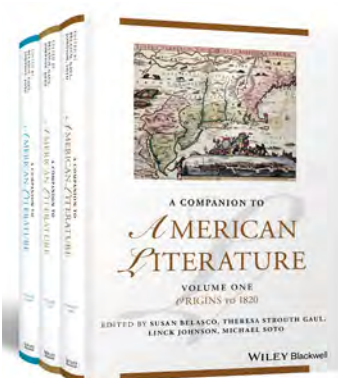
The Wiley Blackwell Companion to Syntax has been revised and expanded to incorporate the last 10 years of syntactic research and a wider array of important case studies in the syntax of a broad array of languages. As with the first edition, this charts the development and historiography of syntactic theory with coverage of all the important subdomains of syntax. It contains over 120 chapters that explain, analyze, and contextualize important empirical studies.

Volume I: A – Ca • Volume II: Ch – De • Volume III: Di – Im • Volume IV: Im – Mi
• Volume V: Mi – Pr • Volume VI: Ps – Se • Volume VII: Se – T • Volume VIII: U – W

Readership: Scholars, researchers, and students of linguistics, particularly those in syntax, phonology, and semantics, as well as those in related areas such as psycholinguistics, sociolinguistics, neurolinguistics, and applied linguistics.

8-Volume Set • Reference • 9781118358726 • Nov-17 • Cloth • 5264pp • US\$1,658.75
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LITERATURE



A Companion to American Literature

Susan Belasco, Theresa Strouth Gaul, Linck Johnson & Michael Soto

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Readership: Students, instructors in American literature courses, and scholars with more specialized interests in specific authors, genres, movements, or periods.

3-Volume Set • Reference • 9781119146711 • Apr-20 • Cloth • 1752pp • US\$585.00
Online ISBN: 9781119056157



A Companion to the History of the Book, 2nd Edition

(Edited by) Simon Eliot & Jonathan Rose

The revised and updated edition of *A Companion to the History of the Book* offers a global survey of the book's history, through print and electronic text. Already well established as a standard survey of the historiography of the book, this new, expanded edition draws on a decade of advanced scholarship to present current research on paper, printing, binding, scientific publishing, the history of maps, music and print, the profession of authorship and lexicography.

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Readership: Academics, students and anyone interested in the subject.

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(General Editor) Ken Seigneurie

A Companion to World Literature is a far-reaching and sustained study of key authors, texts, and topics from around the world and throughout history. Six comprehensive volumes present essays from over 300 prominent international scholars focusing on many aspects of this vast and burgeoning field of literature, from its ancient origins to the most modern narratives. Each unique volume includes introductory chapters on a variety of theoretical viewpoints that inform the field, followed by essays considering the ways in which authors and their books contribute to and engage with the many visions and variations of world literature as a genre.

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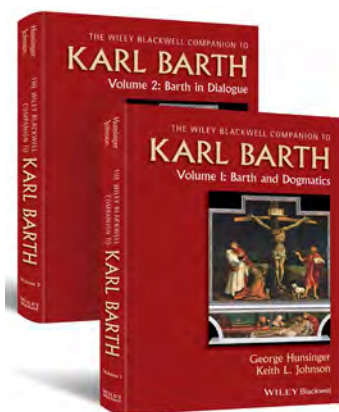
Readership: Advanced students, teachers, and researchers in world literature and literary theory.

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Online ISBN: 9781118635193

RELIGION & THEOLOGY



The Wiley Blackwell Companion to Karl Barth

George Hunsinger & Keith L. Johnson

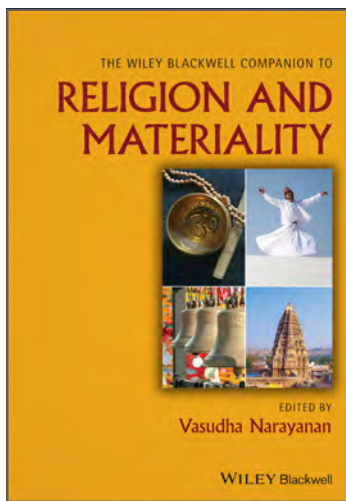
Karl Barth, arguably the most influential theologian of the 20th century, is widely considered one of the greatest thinkers within the history of the Christian tradition. Readers of Karl Barth often find his work both familiar and strange: the questions he considers are the same as those Christian theologians have debated for centuries, but he often addresses these questions in new and surprising ways. *The Wiley Blackwell Companion to Karl Barth* helps readers understand Barth's theology and his place in the Christian tradition through a new lens.

Volume 1 Barth and Dogmatics • I. The Life of Karl Barth • II. Barth on Doctrinal Topics • **Volume 2** Barth in Dialogue • III. Barth and Major Figures • IV. Barth and Major Themes

Readership: Scholars and students interested in the work of Karl Barth, modern theology, or systematic theology.

2-Volume Set • Reference • 9781119156567 • Feb-20 • Cloth • 1016pp • US\$390.00

Online ISBN: 9781119156574



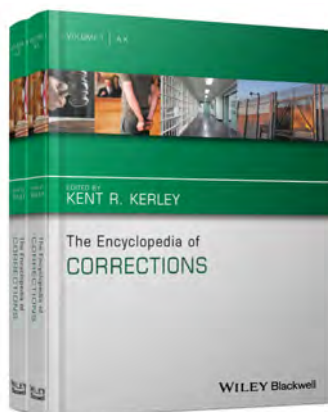
The Wiley Blackwell Companion to Religion and Materiality

(Edited by) Vasudha Narayanan

The Wiley Blackwell Companion to Religion and Materiality provides a thoughtfully organized, inclusive, and vibrant project of the multiple ways in which religion and materiality intersect. The contributions explore the way that religion is shaped by, and has shaped, the material world, embedding beliefs, doctrines, and texts into social and cultural contexts of production, circulation, and consumption. The Companion is organized from a comparative perspective, highlighting examples and case studies from traditions originating in both East and West.

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Reference • 9781118660102 • Apr-20 • Cloth • 592pp • US\$195.00
Online ISBN: 9781118660072



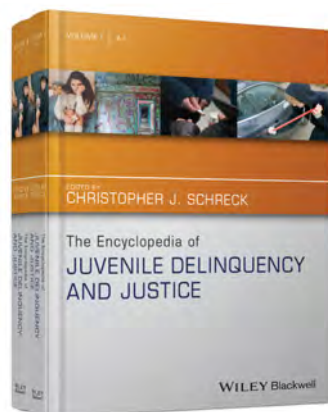
The Encyclopedia of Corrections

(Edited by) Kent R. Kerley

The Encyclopedia of Corrections is a comprehensive, up-to-date, and authoritative reference work for the fields of corrections and criminal justice. It features over 280 detailed scholarly entries by experts in their fields and provides comprehensive coverage on key topics in corrections, including history, trends and types of punishment, correctional theory, policy, and law. With a broad range of cutting-edge examples drawn from criminal justice systems around the world, the Encyclopedia summarizes the latest theory and practice in major topical areas within corrections, such as sentencing, community corrections, jails and prisons, special populations, women, juveniles, treatment, prisoner reentry, and the death penalty.

Readership: Scholars, graduate students, and undergraduates studying criminal justice, criminology, and corrections; criminal justice practitioners, law enforcement, and policymakers.

2-Volume Set • Reference • 9781118845424 • Jul-17 • Cloth • 1184pp • US\$410.75
Online ISBN: 9781118845387



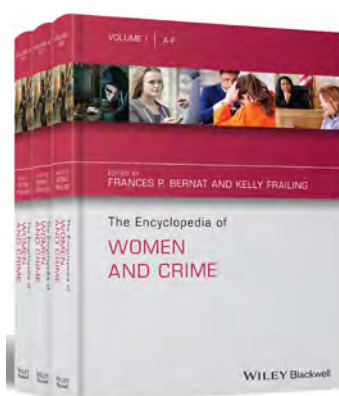
The Encyclopedia of Juvenile Delinquency and Justice

(Edited by) Christopher J. Schreck

The Encyclopedia of Juvenile Delinquency and Justice is a compendium of more than 200 contributions written by leading scholars from the fields of criminal justice, justice sciences, social work, and sociology. It incorporates the latest research, policies, and practices regarding young offenders, the processing of juveniles within the court system, and various approaches to treating and eliminating juvenile crime. Organized alphabetically, the entries in this Encyclopedia encompass several major themes, with focus on juvenile delinquents and delinquency, specifically the causes, correlates, and experiences of at-risk youth.

Readership: Students and professionals engaged in the fields of criminology, juvenile delinquency, justice administration, and sociology.

2-Volume Set • Reference • 9781118520321 • Oct-17 • Cloth • 1032pp • US\$410.75
Online ISBN: 9781118524275



The Encyclopedia of Women and Crime

(Edited by) Frances P. Bernat & Kelly Frailing

The Encyclopedia of Women and Crime is a comprehensive reference work on the pioneers and practitioners in the field of criminal justice, and an expert analysis of both female offenders and victims of crime. Offering a balanced perspective, this innovative work focuses on interdisciplinary, transnational, historical, and current perspectives on gender and offending behavior, victimization, legal and policy responses, and notable cases and individuals. Comprehensive coverage of a wide range of timely and relevant topics, historical analyses, biographies, and legal case studies provide readers with an essential resource on the intersection of race, class, and gender with both crime and victimization.

Readership: Researchers, students, and practitioners in fields such as law, criminal justice and criminology, sociology and social work, political science, psychology, and for anyone working with female victims and offenders.

3-Volume Set • Reference • 9781118929797 • Oct-19 • Cloth • 1272pp
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AQUACULTURE



Sex Control in Aquaculture

(Edited by) Hanping Wang, Francesc Piferrer & Songlin Chen

Sex Control in Aquaculture explains the concepts and rationale for sex control in aquaculture, application of sex ratio manipulation for population control and invasive species management, detailed and updated information on the underlying genetic, epigenetic, endocrine and environmental mechanisms responsible for the establishment of the sexes, and explains chromosome set manipulation techniques, hybridization and the latest gene knockout approaches. The reference also offers detailed protocols and key summarizing information on how sex control is practiced worldwide in 35 major aquaculture species or groups, including fish and crustaceans, and puts the focus on its application in the aquaculture industry.

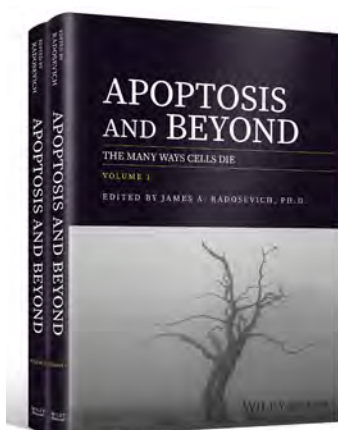
Part I Theoretical and Practical Bases of Sex Control in Aquaculture

- Part II Sex Determination and Control in Cichlidae • Part III Sex Determination and Control in Salmonidae • Part IV Sex Determination and Control in Moronidae • Part V Sex Determination and Control in Centrarchidae • Part VI Sex Determination and Sex Control in Percidae • Part VII Sex Determination and Sex Control in Catfish • Part VIII Sex Determination and Sex Control in Flatfishes • Part IX Sex Determination and Sex Control in Sturgeons • Part X Sex Determination and Sex Control in Crustaceans • Part XI Sex Determination and Sex Control in Other Fish Species

Readership: Biological scientists, geneticists and molecular biologists working in aquaculture and related areas. Fish biologists, animal scientists, aquaculture scientists.

2-Volume Set • Reference • 9781119127260 • Dec-18 • Cloth • 888pp • US\$340.00
Online ISBN: 9781119127291

CELL & MOLECULAR BIOLOGY



Apoptosis and Beyond

The Many Ways Cells Die

(Edited by) James A. Radosевич

This two-volume source on how cells die is the first, comprehensive collection to cover all of the known processes that cells undergo when they die. *Apoptosis and Beyond* seeks to enlighten those in the field about these many processes and to stimulate their thinking at looking at these pathways when their research system does not show signs of activation of the classic apoptotic pathway. In addition, it links activities like the molecular biology of one process (eg. Necrosis) to another process (eg. apoptosis) and contrasts those that are close to each.

Readership: Students and researchers/clinicians in cell biology, molecular biology, oncology, tumor biology.

2-Volume Set • Reference • 9781119432425 • Oct-18 • Cloth • 784pp • US\$398.95
Online ISBN: 9781119432463

Encyclopedia of Marine Biotechnology

Encyclopedia of Marine Biotechnology

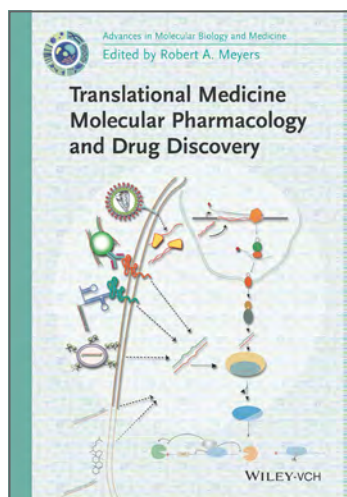
Se-Kwon Kim

A keystone reference in the field, *Encyclopedia of Marine Biotechnology* presents both up-to-date research and the applications of marine biotechnology to both novices and experts. Coverage range from the history and overview of marine biotechnology, to information on marine organisms, bioprocess techniques, marine natural products, biomaterials, bioenergy and algal biotechnology, as well as marine food and biotechnology applications in areas such as pharmaceuticals, cosmeceuticals and nutraceuticals. Edited by an experienced author with contributions from internationally recognized experts in Asia, USA, South America, South Africa, Europe and the UK, the comprehensive reference brings together a diverse range of research on marine biotechnology to bridge the gap between scientific research and the industrial arena.

Professor Se-Kwon Kim is Distinguished Professor, Department of Marine-Bio. Convergence Science, and, Director, Marine Bioprocess Research Center, Pukyong National University, South Korea.

Readership: Researchers, scientists and marine biologists in industry, as well as students at postgraduate and graduate level.

5-Volume Set • Reference • 9781119143772 • Jun-20 • Cloth • 3248pp • US\$950.00
Online ISBN: 9781119143802



Translational Medicine

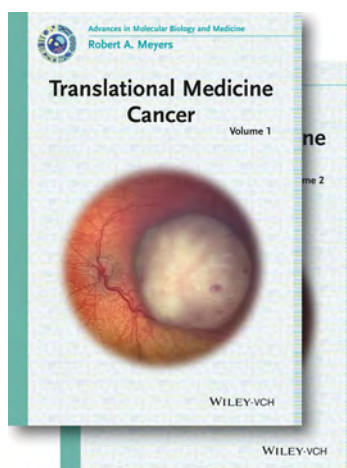
Molecular Pharmacology and Drug Discovery

Robert A. Meyers

This reference work gives a complete overview of the different stages of drug development using a translational approach. The book is structured in different parts, following the different stages in drug development. Almost half of the work is dedicated to core of drug discovery using a translational approach, the identification of appropriate targets and screening methods for the identification of compounds interacting with these targets.

Readership: Advanced students, postdoctoral researchers, Pharmacologists, Pharmaceutical industry, Molecular biologists, Cell biologists.

Reference • 9783527336593 • Apr-18 • Cloth • 1064pp • US\$470.00



Translational Medicine

Cancer

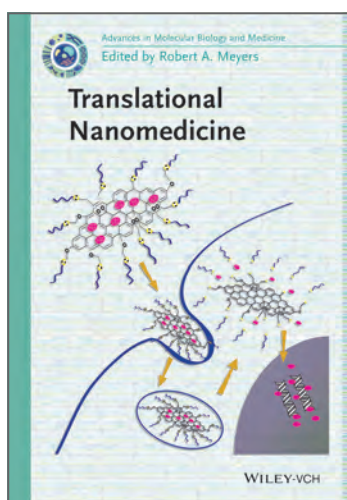
Robert A. Meyers

The two volumes contain selected articles from the prestigious online *Encyclopedia of Molecular Cell Biology and Molecular Medicine*, fully updated and enriched with numerous new contributions from many eminent scientists. Divided into three parts, the first gives a thorough introduction to cancer biology, while Part Two covers therapeutic approaches for all major forms of cancer, and the third part deals with cancer diagnostics.

Readership: Advanced students, postdoctoral researchers, Pharmacologists, Pharmaceutical industry, Molecular biologists, Cell biologists.

2-Volume Set • Reference • 9783527335695 • Mar-16 • Cloth • 940pp • US\$488.75





Translational Nanomedicine

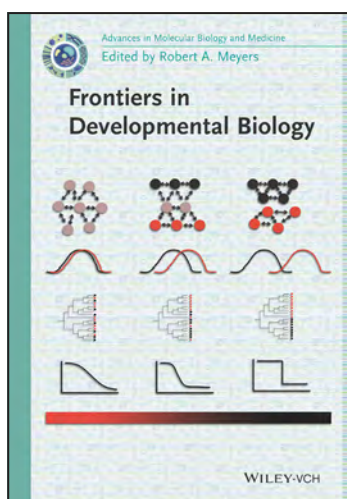
Robert A. Meyers

Nanomedicine deals with therapeutic interventions in which modifications on a nanoscale level or nanomaterials are used for therapeutic purposes. Novel drug delivery methods are often nanomedicine based and allow for more efficient drug delivery through difficult to cross barriers or targeted delivery to specific organs or cells. In addition, nano-imaging gives superb diagnostic information. The long awaited new volume of *Translational Nanomedicine* gives a comprehensive overview on nanomaterials in drug delivery, imaging and as therapeutics. Editor Robert Meyers has assembled an impressive list of authors to deliver an outstanding review of the diverse applications of nanomaterials in medicine. While some approaches have already made their way into the clinics, others are being developed with exiting potential for promising new applications. In particular the areas of drug delivery and nanoscale imaging are bound to revolutionize medicine in the years to come.

Readership: Advanced students, postdoctoral researchers, Pharmacologists, Pharmaceutical industry, Molecular biologists, Cell biologists.

Reference • 9783527337897 • Feb-20 • Cloth • 484pp • US\$470.00

DEVELOPMENTAL BIOLOGY



Frontiers in Developmental Biology

(Editor-in-Chief) Robert A. Meyers

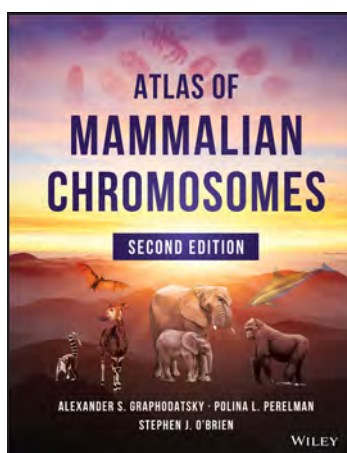
This topical volume brings together all important aspects of developmental biology in one source, from morphogenesis and organogenesis, via epigenetic regulation of gene expression to evolutionary developmental biology. The editor-in-chief has assembled an outstanding team of contributors to review these topics, creating an authoritative work for many years to come. The result is a unique, top-level reference in developmental biology for researchers, students and clinicians alike.

Part I Introduction • **Part II** Evolutionary Developmental Biology • **Part III** Cell Migration and Morphogenesis • **Part IV** Gametogenesis, Fertilization and Early Embryogenesis

Readership: Developmental biologists, Cell biologists, Molecular biologists, Geneticists, Libraries.

Reference • 9783527338214 • Mar-19 • Cloth • 620pp • US\$470.00

GENETICS



Atlas of Mammalian Chromosomes, 2nd Edition

(Edited by) Stephen J. O'Brien, Alexander Graphodatsky & Polina Perelman

A visual collection of the banded metaphase chromosome karyotypes from some 850 species of mammals, the *Atlas of Mammalian Chromosomes* represents an unabridged compendium of the state of this genomic art form. Bringing together information currently scattered throughout the cytogenetics literature for scores of published and unpublished species, this atlas features high-quality karyotype images for nearly every mammal studied to date, making it the most comprehensive assemblage of high-resolution chromosome photographs available – and an invaluable resource for today's comparative genomics era.

Monotremata • Marsupialia • Afrotheria • Xenarthra • Euarchontoglires • Laurasiatheria

Readership: Cytogeneticists, geneticists, mammalogists, zoologists, biologists interested in comparative genomics, systematics, evolution.

Reference • 9781119418030 • Apr-20 • Cloth • 976pp • US\$TBA
Online ISBN: 9781119418061 • Previous print edition: 9780471350156



Micropropagation of Orchids, 3rd edition

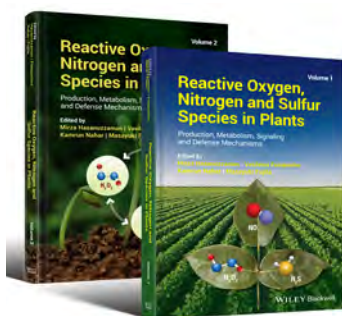
Tim Wing Yam & Joseph Arditti

Written by two globally acknowledged experts in the field, the third edition of *Micropropagation of Orchids* is a detailed and comprehensive collection of procedures and methods for multiplying orchids, including organ, tissue, and cell culture techniques in vitro. A definitive text on the micropropagation of orchids, it includes new techniques and procedures for both previously cultured and newly cultured orchids, detailed procedures are appended with tables and complete recipes for a large number of culture media, and addresses new plant hormones, new growth regulators and new media components. Much of the general information about techniques and procedures can be applied to plants other than orchids.

Author **Dr. Tim Wing Yam** is a Principal Researcher at Singapore Botanic Gardens, National Parks Board, Singapore.

Readership: Researchers in plant science and propagation, professional orchid growers, plant breeding professionals.

3-Volume Set • Reference • 9781119187059 • Jun-17 • Cloth • 2368pp • US\$780.00
Online ISBN: 9781119187080 • Previous print edition: 9781405160889



Reactive Oxygen, Nitrogen and Sulfur Species in Plants

Production, Metabolism, Signaling and Defense Mechanisms

(Edited by) Mirza Hasanuzzaman, Vasileios Fotopoulos, Kamrun Nahar & Masayuki Fujita

Leading experts accumulate the recent development in the research on oxidative stress and approaches to enhance antioxidant defense system in crop plants. They discuss both the plant responses to oxidative stress and mechanisms of abiotic stress tolerance, and cover all of the recent approaches towards understanding oxidative stress in plants, providing comprehensive information about the topics. It also discusses how reactive nitrogen species and reactive sulfur species regulate plant physiology and plant tolerance to environmental stresses.

Editor **Mirza Hasanuzzaman** is Visiting Researcher, Center of Molecular Bioscience, University of the Ryukyus, Okinawa, Japan and Associate Professor, Department of Agronomy, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh. Dr Hasanuzzaman is an expert in the field of plant physiology, abiotic stress tolerance and agronomy. He has published 30 book chapters, more than 80 research articles and edited two books. Editor **Masayuki Fujita**, Laboratory of Plant Stress Responses, Faculty of Agriculture, Kagawa University, Japan. Dr Fujita is an expert in plant stress physiology, plant biochemistry and molecular biology. He has published 50 book chapters, 120 research articles and edited two books.

Readership: Graduate students and researchers in the fields of agriculture, agronomy, botany, plant physiology, environmental science, and food science; Agriculture and environmental professionals.

2-Volume Set • Reference • 9781119146861 • Jul-19 • Cloth • 1024pp • \$400.00
Online ISBN: 9781119146877

Space Physics and
Aeronomy



Space Physics and Aeronomy

Yongliang Zhang & Larry J. Paxton

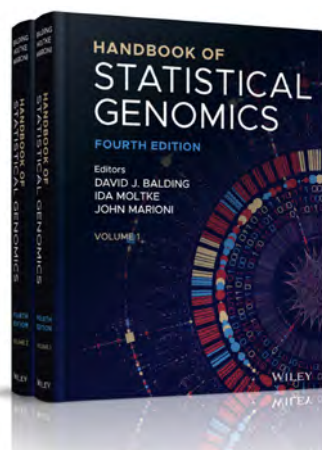
Space Physics and Aeronomy is a unique, comprehensive depository of the scientific and technological aspects of the space physics and aeronomy fields. It covers space science of the entire solar system, from the Sun, solar wind, to the magnetospheres, ionospheres and neutral atmospheres of planets, as well as applications of the scientific advances to operations in space and ground. Almost all of changes in space environment are caused by activities within the Sun. These five volumes will reveal new progresses in understanding our space environment due to new observations, modelling capabilities and theories, and a view on how the Sun impacts the space environment, our life on the Earth and future space travel.

Volume 1 At the Doorstep of our Star: Solar Physics and Solar Wind •

Volume 2 Magnetospheres in the Solar System • **Volume 3** Advances in Ionospheric Research: Current understanding and Challenges • **Volume 4** Thermospheres and Mesospheres in the Solar System • **Volume 5** Space Weather Predications and Applications

Readership: Scientists, researchers, students and instructors in the field of space physics, heliophysics, atmospheric science, earth science and environmental science.

5-Volume Set • Reference • 9781119507482 • Nov-20 • Cloth • 1676pp • US\$1,049.95
Online ISBN: 9781119507512



Handbook of Statistical Genomics, 4th Edition

(Edited by) David J. Balding, Ida Moltke & John Marioni

This new, two-volume edition of a classic text provides a thorough introduction to statistical genomics, a vital resource for advanced graduate students, early-career researchers and new entrants to the field. It introduces new and updated information on developments that have occurred since the 3rd edition. Widely regarded as *the* reference work in the field, it features new chapters focusing on statistical aspects of data generated by new sequencing technologies, including sequence-based functional assays. It expands on previous coverage of the many processes between genotype and phenotype, including gene expression and epigenetics, as well as metabolomics. It also examines population genetics and evolutionary models and inference, with new chapters on the multi-species coalescent, admixture and ancient DNA, as well as genetic association studies including causal analyses and variant interpretation.

2-Volume Set • Reference • 9781119429142 • Jul-19 • Cloth • 1224pp • US\$370.00
Online ISBN: 9781119487845 • Previous print edition: 9780470058305



Surface and Interface Science

(Edited by) Klaus Wandelt

The science of surfaces and interfaces is fundamentally important for numerous modern technologies and methods, such as thin film epitaxy, micro and nanostructure technology, heterogeneous catalysis, material science, electrocatalysis, biosensors, and medical implants. By introducing basic fundamentals and continuing with more specialized techniques, the ten volumes in *Surface and Interface Science* journey through different disciplines to cover all fundamental aspects of surface and interface science and offers a comprehensive overview of this research area for scientists working in the field, as well as an introduction for newcomers.

Volume 1: Concepts and Methods

Volume 2: Properties of Elemental Surfaces

Volume 3: Properties of Composite Surfaces: Alloys, Compounds, Semiconductors

Volume 4: Solid-Solid Interfaces and Thin Films

Volume 5: Solid-Gas Interfaces I

Volume 6: Solid-Gas Interfaces II

Volume 7: Liquid and Biological Interfaces

Volume 8: Interfacial Electrochemistry

Volume 9: Applications of Surface Science I

Volume 10: Applications of Surface Science II

Readership: Surface Physicists, Solid State Physicists, Materials Scientists, Surface Chemists, Life Scientists, Libraries.

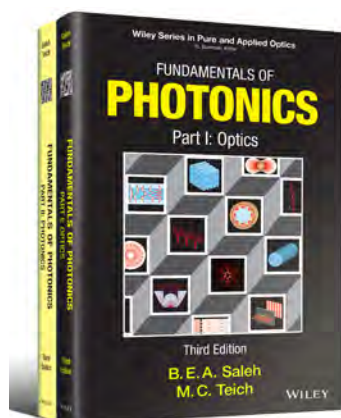
Vol 1 & 2 • Reference • 9783527411566 • Mar-12 • Cloth • 1004pp • US\$504.50

Vol 3 & 4 • Reference • 9783527411573 • Nov-13 • Cloth • 1000pp • US\$504.50

Vol 5 & 6 • Reference • 9783527411580 • Dec-15 • Cloth • 1530pp • US\$488.75

Vol 7 & 8 • Reference • 9783527411597 • Jan-20 • Cloth • 1008pp • US\$500.00

Vol 9 & 10 • Reference • 9783527413812 • Jan-20 • Cloth • 1000pp • US\$500.00



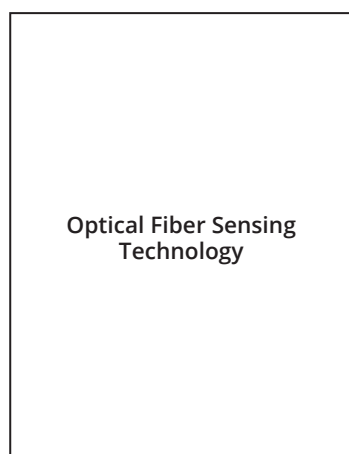
Fundamentals of Photonics, 3rd Edition

Bahaa E. A. Saleh & Malvin Carl Teich

The thoroughly updated, full-color third edition of *Fundamentals of Photonics* is a self-contained and up-to-date introductory-level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics. Featuring a blend of theory and applications, coverage includes detailed accounts of the primary theories of light, as well as the interaction of light and matter. This text features an entirely new chapter on the optics of metals and plasmonic devices. Each chapter contains highlighted equations, exercises, problems, summaries, and selected reading lists, and examples of real systems are included to emphasize the concepts governing applications of current interest.

Readership: Upper level undergraduate and first year graduate students in photonics courses; professionals in the fields of optics, photonics, and lasers.

2-Volume Set • Reference • 9781119506874 • Feb-19 • Cloth • 1520pp • US\$194.95
Previous print edition: 9780471358329



Optical Fiber Sensing Technology

Principles and Practice

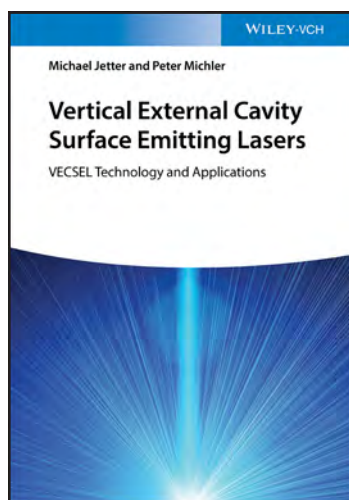
Tiegeng Liu, Junfeng Jiang, Kun Liu & Shuang Wang

The book gives a comprehensive overview of optical fiber sensing technologies. It covers all aspects of optical fiber sensing devices, systems and technologies, from the basic principles, innovation methods to a broad range of applications such as Bragg grating sensing technology, intra-cavity laser gas sensing technology, optical coherence tomography, distributed vibration sensing and acoustic sensing. Moreover, the book addresses the bridge connection between innovative basic research and practical engineering.

1. Optical Fiber and Optical Devices • 2. Optical Fiber Bragg Grating Sensing Technology • 3. Extrinsic-Fabry-Perot-Interferometer-Based Optical Fiber Sensing Technology • 4. Extrinsic-Fabry-Perot-Interferometer-Based Optical Fiber Acoustic Sensing Technology • 5. Extrinsic-Fabry-Perot-Interferometer-Based Optical Fiber High Temperature Sensing Technology • 6. Assemble Free Micro-Interferometer-Based Optical Fiber Sensing Technology • 7. Surface-Plasmon-Resonance-Based Optical Fiber Sensing Technology • 8. Sagnac-Interferometer-Based Optical Fiber Sensing Technology • 9. Mode-Interference-Based Optical Fiber Sensing Technology • 10. Whisper-Gallery-Mode-Based Optical Fiber Sensing Technology • 11. Optical Fiber Intra-Cavity Laser Gas Sensing Technology • 12. Optical Fiber Based Optical Coherence Tomography • 13. Discrete Optical Fiber Sensing Network Technology • 14. Distributed Vibration Sensing Based On Dual Mach-Zehnder Interferometer • 15. Regional Style Intelligent Perimeter Security Technique Based On Michelson Interferometer • 16. Distributed Temperature Sensing Based On Raman Scattering • 17. Distributed Acoustic Sensing Based On Optical Time Domain Reflectometry • 18. Distributed Sensing Based On Optical Frequency Domain Reflectometry

Readership: Applied physicists, Semiconductor physicists, Semiconductor, Optical, Sensor industries, Sensor developer, Materials scientists, Engineers for Measurement and Control, Libraries.

2-Volume Set • Reference • 9783527346363 • Nov-20 • Cloth • 800pp • US\$405.00
Online ISBN: 9783527822454



Vertical External Cavity Surface Emitting Lasers

VECSEL Technology and Applications

Michael Jetter & Peter Michler

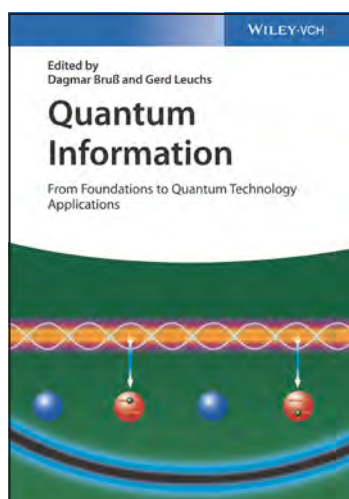
In this ready reference leading research groups from Europe and the USA share their inside knowledge on all fundamental and technological aspects of vertical external cavity surface emitting lasers (VECSELs), covering the physics and technology behind optically and electrically pumped disk lasers, new developments of these devices in the different wavelength ranges, the novel concepts of DBR-free and MECSEL lasers, and an overview of the MIXEL concept and the emerging idea of self-mode locking.

Part I. Review of Physics and Technology and Applications • **Part II.** CW-Laser, Frequency Doubling, and New Concepts • **Part III.** Mode-Locking and Characterization

Readership: Laser specialists, Optical industry, Physicists, Semiconductor physicists, Spectroscopists, Telecommunications engineers, Libraries.

2-Volume Set • Reference • 9783527413621 • Oct-20 • Cloth • 800pp • US\$445.00
Online ISBN: 9783527807956

THEORETICAL PHYSICS



Quantum Information, 2nd Edition

From Foundations to Quantum Technology Applications

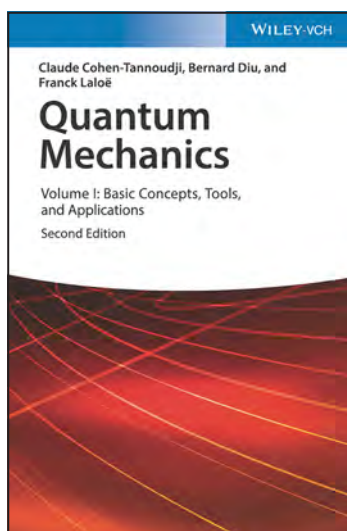
(Edited by) Dagmar Bruß & Gerd Leuchs

This comprehensive handbook on the rapidly advancing field introduces readers to the fundamental concepts of information theory and quantum entanglement, taking into account the current state of research and development. The second edition incorporates important recent developments such as quantum metrology, quantum correlations beyond entanglement, and advances in quantum computing with solid state devices.

Part I Classical Information Theory • **Part II** Foundations of Quantum Information Theory • **Part III** Theory of Entanglement • **Part IV** Quantum Communication • **Part V** Quantum Computing: Concepts • **Part VI** Quantum Computing: Implementations • **Part VII** Quantum Interfaces and Memories • **Part VIII** Towards Quantum Technology Applications

Readership: Theoretical physicists, Applied physicists, Materials scientists, Engineering scientists, Physicists in industry, libraries.

2-Volume Set • Reference • 9783527413539 • Apr-19 • Cloth • 512pp • US\$405.00
Online ISBN: 9783527805785 • Previous print edition: 9783527405275



Quantum Mechanics, Volume 1, 2nd Edition

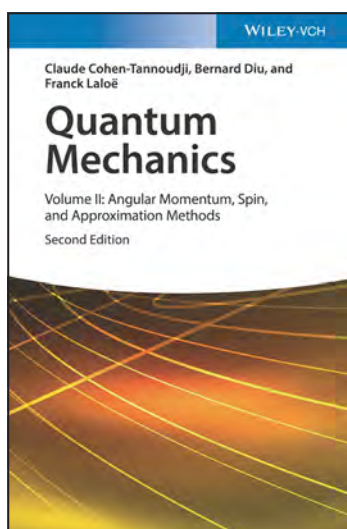
Basic Concepts, Tools, and Applications

Claude Cohen-Tannoudji, Bernard Diu & Frank Laloe

The new edition of the first volume of Cohen-Tannoudji's groundbreaking textbook introduces the fundamental concepts of quantum mechanics such as waves, particles and probability before explaining the postulates of quantum mechanics in details. In the proven didactic manner the textbook then covers the classical scope of introductory quantum mechanics, namely simple two-level systems, the one-dimensional harmonic oscillator, the quantized angular momentum and particles in a central potential. The entire book has been completely revised to take into account new developments in quantum mechanics curricula.

Waves and Particles: Introduction to the Fundamental Concepts of Quantum Mechanics • The Mathematical Tools of Quantum Mechanics • The Postulates of Quantum Mechanics • Application of the Postulates to Simple Cases: Two Level Systems and Spin 1/2 Systems • The One Dimensional Harmonic Oscillator • General Properties of Angular Momentum in Quantum Mechanics • Particles in a Central Potential. The Hydrogen Atom

Volume 1 • Reference • 9783527345533 • Oct-19 • Cloth • 944pp • US\$195.00
Previous print edition: 9780471164333



Quantum Mechanics, Volume 2, 2nd Edition

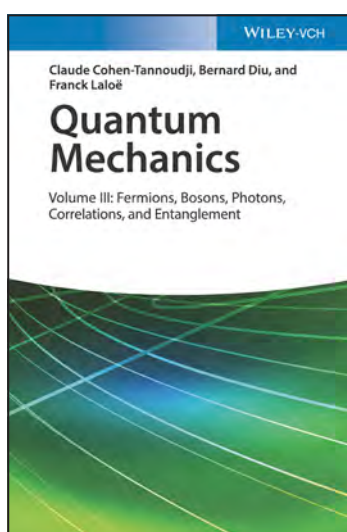
Angular Momentum, Spin, and Approximation Methods

Claude Cohen-Tannoudji, Bernard Diu & Frank Laloe

The new edition of the second volume of unrivalled textbook introduces concepts such as the quantum theory of scattering by a potential, special and general cases of adding angular momenta, time-independent and time-dependent perturbation theory, and systems of identical particles. The entire book has been completely revised to take into account new developments in quantum mechanics curricula.

An Elementary Approach to the Quantum Theory of Scattering by a Potential • Electron Spin • Addition of Angular Momenta • Stationary Perturbation Theory • An Application of Perturbation Theory: The Fine And Hyperfine Structure Of The Hydrogen Atom • Approximation Methods for Time-Dependent Problems • Systems of Identical Particles

Volume 2 • Reference • 9783527345540 • Oct-19 • Cloth • 688pp • US\$185.00
Previous print edition: 9780471164357



Quantum Mechanics, Volume 3

Fermions, Bosons, Photons, Correlations, and Entanglement

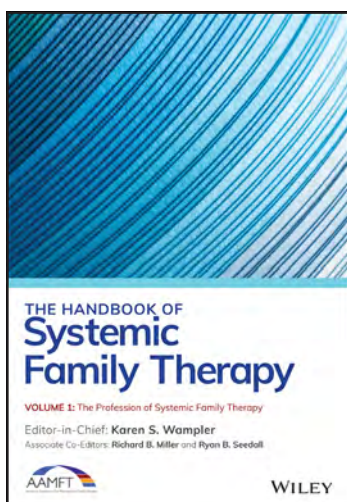
Claude Cohen-Tannoudji, Bernard Diu & Frank Laloe

The third volume and final volume of the quantum mechanics textbook by 1997 Nobel laureate Claude of Cohen-Tannoudji and his colleagues covers advanced topics of quantum mechanics such as uncorrelated and correlated identical particles, the quantum theory of the electromagnetic field, absorption, emission and scattering of photons by atoms, and quantum entanglement. The textbook explains the fundamental concepts which are elaborated in accompanying complements that provide more detailed discussions, examples and applications.

Creation and Annihilation Operators for Identical Particles • Field Operator • Paired States of Identical Particles • Review of Classical Electrodynamics • Quantization of Electromagnetic Radiation • Absorption, Emission and Scattering of Photons by Atoms • Quantum Entanglement, Measurements, Bell's Inequalities • Appendix: Feynman Path Integral • Appendix: Lagrange Multipliers • Appendix: Brief Review of Quantum Statistical Mechanics

Readership: Students in Physics, students in Chemistry, lecturers in Physics.

Volume 3 • Reference • 9783527345557 • Oct-19 • Cloth • 784pp • US\$190.00



The Handbook of Systemic Family Therapy

(Editor-in-Chief) Karen S. Wampler

A first of its kind, *The Handbook of Systemic Family Therapy* is a ground-breaking reference work that redefines the profession and practice of systemic therapy, organizing material by presenting issue rather than intervention. The Handbook integrates the scholarly literature on systemic interventions focused on children, couples, and families into a single resource. Contributors provide a balanced, integrative, and forward-looking analysis of the research, theory and interventions related to their topic illustrated with clinical examples. Particular attention is paid to cultural and family diversity throughout the work.

Volume 1: The Profession of Systemic Family Therapy

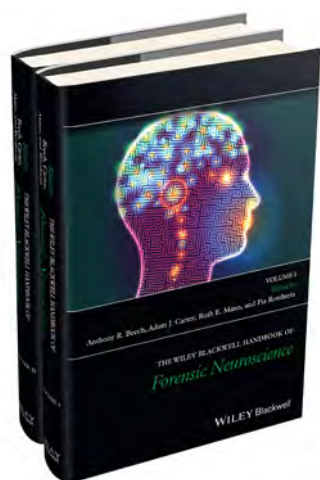
Volume 2: Systemic Family Therapy with Children and Adolescents

Volume 3: Systemic Family Therapy with Couples

Volume 4: Systemic Family Therapy with Family over the Lifespan

Readership: Clinicians, researchers, educators, graduate students, and policymakers.

4-Volume Set • Reference • 9781119438557 • May-20 • Cloth • 2756pp • US\$655.00
Online ISBN: 9781119438519



The Wiley Blackwell Handbook of Forensic Neuroscience

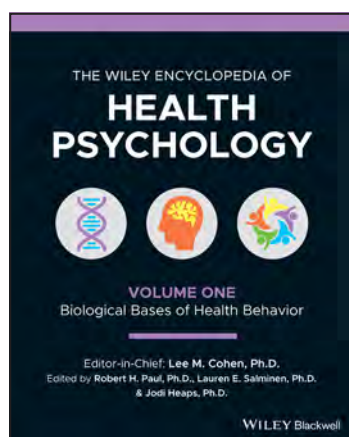
(Edited by) Anthony R. Beech, Adam J. Carter, Ruth E. Mann & Pia Rotshtein

Forensic psychology is the study of human behaviour in relation to crime, while neuroscience is the direct study of the brain and its functions. The intersection of the two is widely accepted as the most promising future direction for forensic research. Capturing the field for the first time, *The Wiley Blackwell Handbook of Forensic Neuroscience* explores how the explosion of neuroscience-based evidence in recent years has led to a fundamental change in how forensic psychology can inform work with the criminal population. Topics covered include the neurobiology of aggressive behaviour, the neuroscience of deception, genetic contributions to psychopathy, and neuroimaging-guided treatment.

Volume 1 • Section I: Introduction • Section II: General neuroscience research • Section III: Neurobiology of offending • **Volume 2** • Section IV: Neurobiological bases to Risk factors for offending • Section V: Rehabilitation • Section VI: Ethical, Legal and political implications • Section VII: Conclusions

Readership: Researchers, practitioners, and postgraduate students involved with forensic psychology, neuroscience, law, and criminology.

2-Volume Set • Reference • 9781118650929 • Jan-18 • Cloth • 1032pp • US\$436.75
Online ISBN: 9781118650868



The Wiley Encyclopedia of Health Psychology

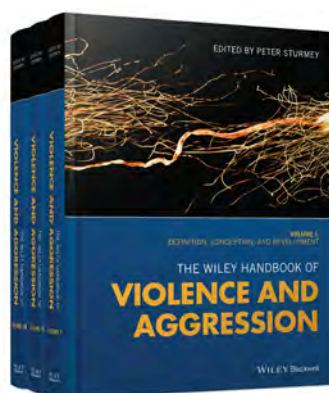
(Editor-in-Chief) Lee M. Cohen

Health Psychology focuses on how biology, psychology, behavior, and social factors influence health and illness. While the field has only been formally recognized for approximately 50 years, it has established itself as a major scientific and clinical discipline. The primary reason for this is that there have been a number of significant advances in psychological, medical, and physiological research that has led to the development of biopsychosocial model. This model views health and illness as the product of a combination of factors including biological characteristics (e.g., genetics), behavioral factors (e.g., lifestyle, health beliefs), and social conditions (e.g., cultural influences, family relationships, social support). *The Wiley Encyclopedia of Health Psychology* will be organized thematically as an A to Z reference encyclopedia across 4 volumes and provide a concise overview of the field, which is much needed given the diversity of this ever-expanding multidisciplinary field.

Volume One Biological Bases of Health Behavior • **Volume Two** Social Bases of Health Behavior • **Volume Three** Clinical Health Psychology & Behavioral Medicine • **Volume Four** Special Issues in Health Psychology

Readership: Academic and professional psychologists as well as other health care professionals interested in the relationship of psychological and physical well being.

4-Volume Set • Reference • 9781119057833 • Jul-20 • Cloth • 2400pp • US\$643.95
Online ISBN: 9781119057840



The Wiley Handbook of Violence and Aggression

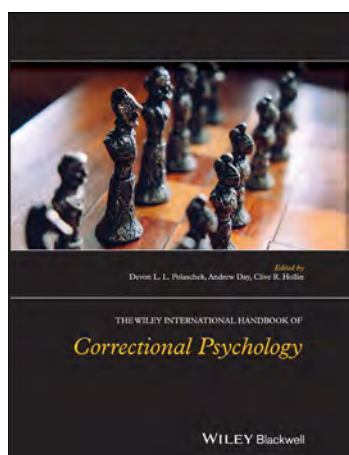
(Edited by) Peter Sturmey

A comprehensive resource that explores everything from the root causes of violence and aggression to the appropriate interventions for both individuals and society at large. *The Wiley Handbook of Violence and Aggression* is a landmark resource that explores the broad scope of violence and aggression with contributions from an international panel of experts in the field. Filled with the most recent research and developments, this important text contains information on the biology of aggression and violence, developmental pathways, theoretical advances, the assessment, prevention and treatment of individuals, clinical treatments that target special populations, and a wide-range of societal interventions.

Volume I: Definition, Conception, and Development • **Volume II:** Assessment, Prevention and Treatment of Individuals • **Volume III:** Societal Interventions

Readership: Postgraduate students and researchers involved in all elements of Aggression and Violence, Forensic Psychology, Social and Behavioral Science, and Applied Psychology.

3-Volume Set • Reference • 9781119057550 • Aug-17 • Cloth • 1928pp • US\$618.75
Online ISBN: 9781119057574



The Wiley International Handbook of Correctional Psychology

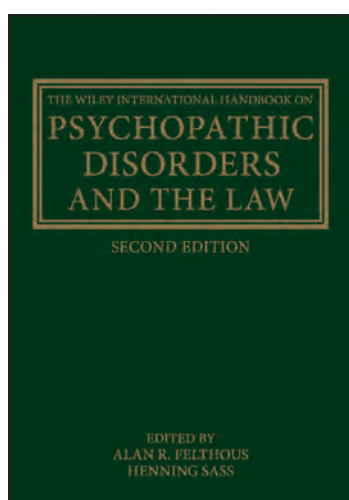
(Edited by) Devon L. L. Polaschek, Andrew Day & Clive R. Hollin

With contributions from an international panel of experts in the field, *The Wiley International Handbook of Correctional Psychology* offers a comprehensive and up-to-date review of the most relevant topics concerning the practice of psychology in correctional systems. The Handbook explores the foundations of correctional psychology and contains information on the history of the profession, the roles of psychology in a correctional setting and examines the implementation and evaluation of various interventions. It also covers a range of topics including psychological assessment in prisons, specific treatments and modalities as well as community interventions.

Part I Correctional Psychology in Context • Part II The Roles of Psychology in Managing Prisons and Offenders • Part III Foundational Knowledge of Offending and Offenders • Part IV Intervention: Theory, Design, Implementation and Evaluation • Part V Assessment • Part VI Treatment: Specific Populations and Problems • Part VII Treatment: Modalities and Approaches • Part VIII Community Interventions

Readership: Correctional psychologists, academics and students in correctional psychology and members of allied professional disciplines.

2-Volume Set • Reference • 9781119139683 • Mar-19 • Cloth • 840pp • US\$395.00
Online ISBN: 9781119139980



The Wiley International Handbook on Psychopathic Disorders and the Law, 2nd Edition

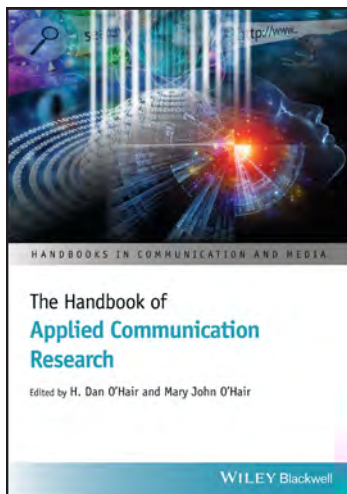
Alan Felthous & Henning Sass

The economic impact of society's efforts to rehabilitate and contain psychopathically disordered individuals can be enormous. Understanding these disorders, developing valid assessment methods and providing safe, effective treatments is therefore of paramount importance. Reflecting the work of an international panel of experts, *The Wiley International Handbook on Psychopathic Disorders and the Law* offers an in-depth and multidisciplinary look at key aspects of the development and etiology of psychopathic disorders, current methods of intervention, treatment and management, and how these disorders impact decision-making in civil and criminal law.

Volume I • Part I Conceptual History • Part II Assessment • Part III Etiology and Pathogenesis • Part IV Intervention, Treatment and Management • Volume II • Part I Civil Law Issues • Part II Criminal Law Issues • Part III Special Issues

Readership: Practitioners and academics in clinical psychology, forensic psychology, psychiatry, probation, law, law enforcement and social work.

2-Volume Set • Reference • 9781119159285 • Mar-20 • Cloth • 1250pp • US\$305.95
Online ISBN: 9781119159322 • Previous print edition: 9780470011850



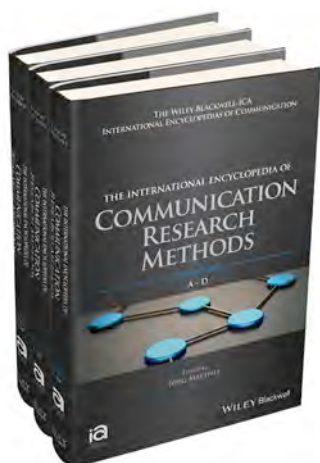
The Handbook of Applied Communication Research

(Edited by) H. Dan O'Hair & Mary John O'Hair

An innovative work that brought together the diverse perspectives of a team of notable international scholars from across disciplines, *The Handbook of Applied Communication Research* includes discussion and analysis spread across two comprehensive volumes. Volume one introduces ACR, explores what is possible in the field, and examines theoretical perspectives, organizational communication, risk and crisis communication, and media, data, design, and technology. The second volume focuses on real-world communication topics such as health and education communication, legal, ethical, and policy issues, and volunteerism, social justice, and communication activism.

Readership: Advanced undergraduate students, graduate students, and scholars in Applied Communication, Social and Behavioral Science, Communication and Media Studies courses.

2-Volume Set • Reference • 9781119399858 • Jun-20 • Cloth • 1016pp • US\$TBA
Online ISBN: 9781119399926



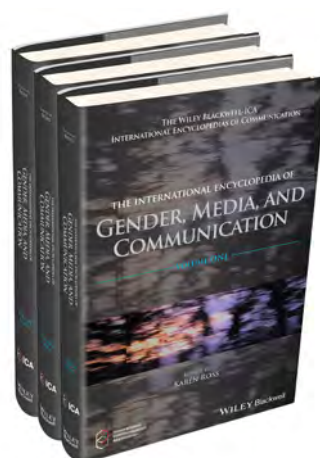
The International Encyclopedia of Communication Research Methods

(Edited by) Jörg Matthes

The International Encyclopedia of Communication Research Methods covers all communication research methods, from data collection to data analysis, from qualitative to quantitative, and from classical to modern approaches. It introduces new and advanced methods and measurement tools that have been developed in other fields but which may be useful to communication scholars.

Readership: Communication students, and scholars independent of their topical focus and methodological expertise.

3-Volume Set • Reference • 9781118901762 • Sep-17 • Cloth • 2048pp • US\$650.00
Online ISBN: 9781118901731



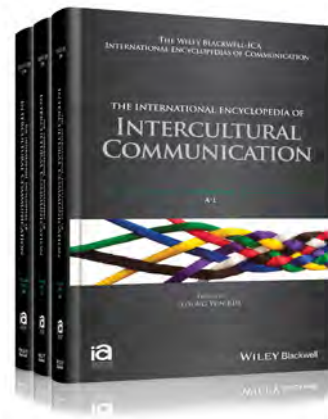
The International Encyclopedia of Gender, Media, and Communication

(Edited by) Karen Ross

The International Encyclopedia of Gender, Media, and Communication comprises more than 250 entries by an international team of both established and emerging scholars in the field. The contributors offer original insights on diverse aspects of gender in film, television, visual media, social and digital media and more in this innovative resource. Three alphabetically-organized volumes explore contexts and issues, production, fiction and non-fiction representation, and audience consumption.

Readership: Advanced undergraduate students, graduate students, instructors, and scholars in media, communication, gender studies, and related fields.

3-Volume Set • Reference • 9781119429104 • Oct-20 • Cloth • 2000pp • US\$625.00
Online ISBN: 9781119429128



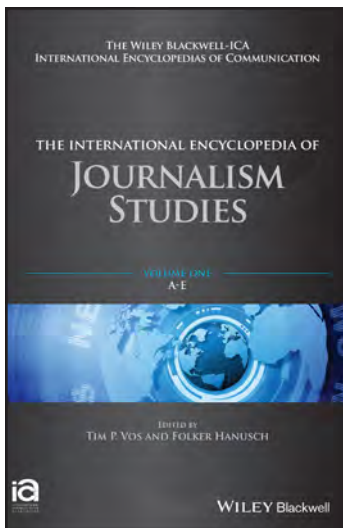
The International Encyclopedia of Intercultural Communication

(Edited by) Young Yun Kim

The International Encyclopedia of Intercultural Communication employs a broadly-based taxonomy of intercultural communication (ICC) that consists of six organizing themes and featuring 256 articles written by 249 authors representing 19 different countries. This encyclopedia addresses issues, theories, and concepts that have substantively contributed to the development of ICC theory and research; methodological issues of importance to ICC research; and summaries of findings from original studies directly pertaining to the ICC domain.

Readership: International communication undergraduate and graduate students; academic researchers and professional practitioners of intercultural communication.

3-Volume Set • Reference • 9781118783948 • Nov-17 • Cloth • 2160pp • US\$650.00
Online ISBN: 9781118783665



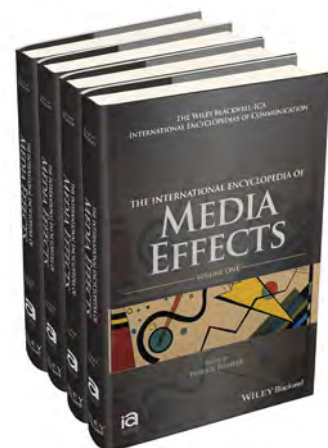
The International Encyclopedia of Journalism Studies

(Edited by) Tim P. Vos & Folker Hanusch

The digital era has seen significant social, economic, and technological change in journalism, invigorating journalism studies as an academic discipline. The official encyclopedia of the International Communication Association (ICA), this invaluable text includes more than 250 entries that form a comprehensive overview of the study of journalism as a distinct field, and provides credible and timely information on its key concepts, theories, and methodologies.

Readership: Students in all areas of journalism, as well as academics, scholars, and practitioners.

3-Volume Set • Reference • 9781118841679 • Apr-19 • Cloth • 2200pp • US\$625.00
Online ISBN: 9781118841570



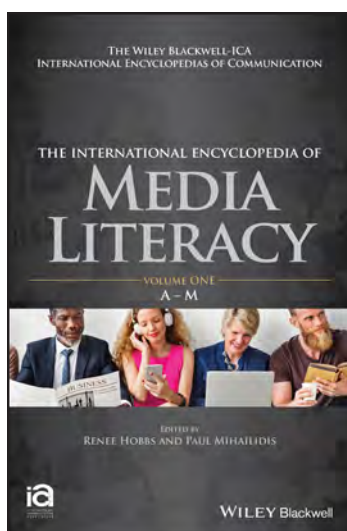
The International Encyclopedia of Media Effects

(Edited by) Patrick Roessler

The International Encyclopedia of Media Effects presents a comprehensive collection of the most up-to-date research on the uses and impacts of media throughout the world. Featuring more than 200 in-depth entries, leading international scholars explore mass media themes from a range of diverse perspectives and approaches, drawing on research from the social sciences and critical studies traditions, to psychological perspectives on communication as a process.

Readership: Scholars and professionals working in the field of Media & Communications, and related areas; undergraduate and graduate level students for courses on theory of communication, media effects, media use, and mid-range theories of media impact.

4-Volume Set • Reference • 9781118784044 • Jan-17 • Cloth • 2336pp • US\$826.75
Online ISBN: 9781118783764



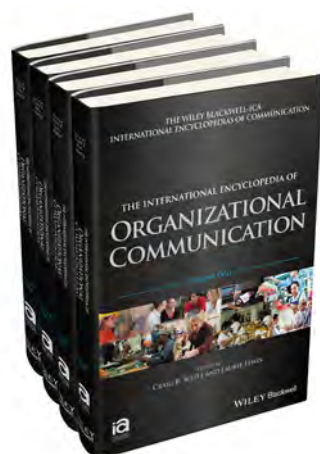
The International Encyclopedia of Media Literacy

(Edited by) Renee Hobbs & Paul Mihailidis

Media literacy encompasses a truly vast range of issues, including participatory culture, digital learning, civic engagement, the impact of media on children, the sociocultural and political dimensions of literacy education, the role of media in shaping social identity, activism, digital teaching and learning, the role of media in shaping health behavior, the impact of news on society, and adolescent development, to name just a few. The first of its kind in ambition and scope, *The International Encyclopedia of Media Literacy* provides global coverage of this dynamic and swiftly moving topic.

Readership: Students, teachers, scholars and practitioners of media literacy; professionals and in academic disciplines, including sociology, media studies, cultural studies, journalism, social media, educational and developmental psychology.

2-Volume Set • Reference • 9781118978245 • Apr-19 • Cloth • 1650pp • US\$419.95
Online ISBN: 9781118978238



The International Encyclopedia of Organizational Communication

(Edited by) Craig Scott & Laurie Lewis

The International Encyclopedia of Organizational Communication offers a comprehensive collection of entries contributed by international experts on the origin, evolution, and current state of knowledge of all facets of contemporary organizational communication. In more than 200 entries spread over four volumes, contemporary organizational communication scholars explore the ways communication shapes and is shaped by organizing across a range of contexts and levels through various theoretical perspectives and methodological approaches.

Readership: Undergraduate and graduate level students for courses in organizational communication and related disciplines.

4-Volume Set • Reference • 9781118955604 • Jan-17 • Cloth • 2592pp • US\$826.95
Online ISBN: 9781118955567



The International Encyclopedia of Strategic Communication

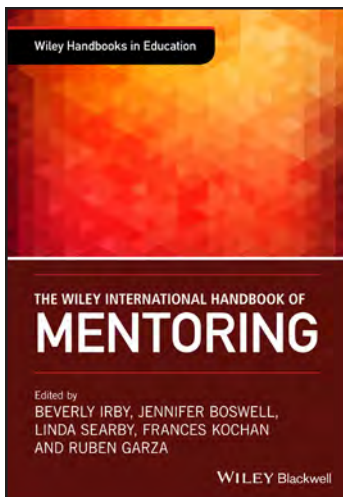
(Edited by) Robert L. Heath & Winni Johansen

In recent years, the field of strategic communication has evolved to be more holistic in its approach and its role within sociocultural contexts. The first major comprehensive work of its kind, *The International Encyclopedia of Strategic Communication* captures the full scope of contemporary theory and practice in strategic communication. Reflecting the current international trend within communication studies generally, this timely reference explores current efforts on the part of thought leaders and practitioners worldwide to critique, integrate, and reengineer forms, structures, functions of, and purposes for external and internal communication of organizations.

Readership: Students, teachers, and researchers in the burgeoning field of communication, public relations, corporate communication, and marketing professionals.

3-Volume Set • Reference • 9781119010715 • Jun-18 • Cloth • 1868pp • US\$624.95
Online ISBN: 9781119010722

EDUCATION



The Wiley International Handbook of Mentoring

(Edited by) Beverly Irby, Jennifer Boswell, Linda Searby, Frances Kochan & Ruben Garza

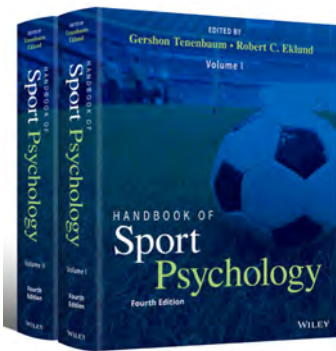
The Wiley International Handbook of Mentoring fills the need for a comprehensive volume of in-depth information on the different types of mentoring programs, effective mentoring practices, and emerging practical and applicable theories. Based on sound research methodologies, this unique text presents original essays by experts from over ten different countries, demonstrating the ways mentoring can make a difference in the workplace and in the classroom; these experts have an understanding of mentoring worldwide having worked in mentoring in over forty countries.

Section 1: Mentoring Paradigms • Section 2: Mentoring Practices •
Section 3: Mentoring Programs • Section 4: Mentoring Possibilities

Readership: Teachers of mentoring courses, trainers, and researchers and practitioners in a variety of fields such as business, education, government, politics, sciences, industry, or sports.

Reference • 9781119142881 • Jan-20 • Cloth • 600pp • US\$210.00
Online ISBN: 9781119142973

PSYCHOLOGY



Handbook of Sport Psychology, 4th Edition

(Edited by) Gershon Tenenbaum & Robert C. Eklund

Now expanded to two volumes, and featuring a wealth of new chapters from highly respected scholars in the field, this all-new edition of the *Handbook of Sports Psychology* draws on an international roster of experts and scholars in the field who have assembled state-of-the-art knowledge into this thorough, well-rounded volume. Endorsed by the International Society of Sport Psychology, it represents an invaluable source of theoretical and practical information on our understanding of the role of psychology in sport, exercise, and performance—and how that understanding can be applied in order to improve real-world outcomes. The new edition includes new material on emerging areas such as mindfulness, brain mapping, self-consciousness, and mental toughness, and covers special topics such as gender and cultural diversity, athletes with disabilities, and alcohol and drug use in sports.

Volume 1 Social Perspectives, Cognition, and Applications • Part 1: Motivation • Part 2: Individual Differences • Part 3: Emotions • Part 4: The Self and the Team • Part 5: Cognition and Expertise • Part 6: Interventions and Performance Enhancement • **Volume 2** Exercise, Methodologies, & Special Topics • Part 7: Exercise as a Medicine • Part 8: Exercise engagement and effort • Part 9: Measurement & Methodologies • Part 10: Special Topics

Readership: Student or professional interested in the field of sports psychology.

2-Volume Set • Trade • 9781119568070 • Feb-20 • Paper • 1280pp • US\$389.95
Online ISBN: 9781119568124 • Previous print edition: 9780471738114



Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience, 4th Edition

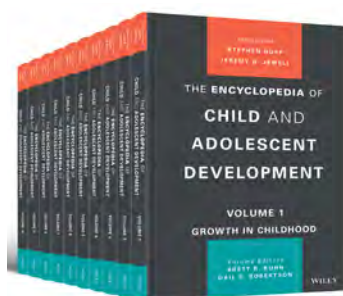
(Editor-in-Chief) John T. Wixted

There is no comprehensive handbook available today that combines basic experimental psychology and cognitive neuroscience, despite the fact that the two fields are interrelated – and even interdependent – because they are concerned with the same issues, such as memory, perception, language and development. Almost all neuroscience-oriented research takes as its starting point what has been learned using behavioral methods in experimental psychology. In addition, psychological theories increasingly take into account what has been learned about the brain. These considerations explain the revision of the title (from *Stevens' Handbook of Experimental Psychology*) to *Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience*. Since the first edition was published in 1951, Stanley Smith Stevens' research and writing has influenced generations of psychologists. Now thoroughly revised and updated, the most reputable resource available in the field of experimental psychology continues to evolve to reflect the changing focus from theories of the mind to theories of the brain and connection to cognitive neuroscience.

Volume 1: Learning and Memory • Volume 2: Sensation, Perception & Attention • Volume 3: Language & Thought • Volume 4: Developmental & Social Psychology • Volume 5: Methodology

Readership: Graduate level courses in Experimental Psychology, Cognitive Neuroscience, Behavioral neuroscience, Social Neuroscience, and Developmental Neuroscience.

5-Volume Set • Trade • 9781119170167 • Mar-18 • Cloth • 3360pp • US\$1249.95
Online ISBN: 9781119170174 • Previous print edition: 9780471443339



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The Encyclopedia of Child and Adolescent Development

(Editors-in-Chief) Stephen Hupp & Jeremy D. Jewell

The Encyclopedia of Child and Adolescent Development presents the major theories, key concepts, disorders, and evidence-based practices in child and adolescent development and psychology. Covering infancy through adolescence and emerging adulthood, this important work outlines major areas of research and examines specific topics, ongoing controversies, and current work being done by leaders in the field. The first work on the topic of its scale, the Encyclopedia offers scholarly, authoritative information from an international team of experts that spans ten volumes.

Volume 1: Growth in Childhood • Volume 2: Behavior in Childhood • Volume 3: Cognition in Childhood • Volume 4: Emotion in Childhood • Volume 5: Family in Childhood • Volume 6: Community in Childhood • Volume 7: History, Theory, and Culture in Adolescence • Volume 8: Biology, Neurology, and Cognition in Adolescence • Volume 9: Social Development in Adolescence • Volume 10: Development of the Self in Adolescence

Readership: Students and practitioners in fields such as psychology, sociology, social work, human development, medicine and biological sciences, education, law, and history.

10-Volume Set • Reference • 9781119161899 • Mar-20 • Cloth • 5536pp •
Introductory price \$1899.95 until 31-May 2020
Online ISBN: 9781119171492

The Wiley Encyclopedia of Personality and Individual Differences

The Wiley Encyclopedia of Personality and Individual Differences

(Editor-in-Chief) *Bernardo J. Carducci & Christopher S. Nave*

The Encyclopedia of Personality and Individual Differences will be organized into four volumes, each of which will focus on a major content area in the study of personality psychology and individuals' differences, including classic and contemporary viewpoints, perspectives, models and theoretical approaches to the study of personality and individuals differences (PID); methods and techniques of assessment in the study of PID; dimensions, constructs, and traits in the study of PID; and clinical contributions, applied research, and cross-cultural considerations of PID.

Volume I: Models and Theories • Volume II: Measurement and Assessment
• Volume III: Personality Processes and Individuals Differences • Volume IV: Clinical, Applied, and Cross-Cultural Research

Readership: Researchers and students in Social and Behavioral Science, Psychology, Clinical and Abnormal Psychology and Personality courses.

4-Volume Set • Reference • 9781118970744 • May-20 • Cloth • 2400pp • US\$795.00
Online ISBN: 9781118970843



The Wiley Handbook of Human Computer Interaction

(Edited by) *Kent L. Norman & Jurek Kirakowski*

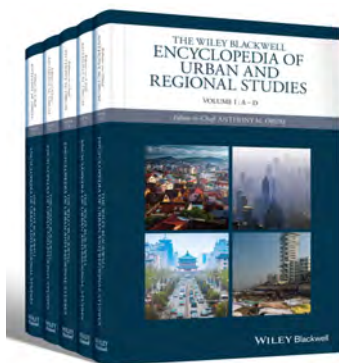
Once, human-computer interaction was limited to a privileged few. Today, our contact with computing technology is pervasive, ubiquitous, and global. Work and study is computer mediated, domestic and commercial systems are computerized, healthcare is being reinvented, navigation is interactive, and entertainment is computer generated. As technology has grown more powerful, so the field of human-computer interaction has responded with more sophisticated theories and methodologies. Bringing these developments together, *The Wiley Handbook of Human-Computer Interaction* explores the many and diverse aspects of human-computer interaction while maintaining an overall perspective regarding the value of human experience over technology.

Part I Design Issues • Part II Design Process • Part III Evaluation Factors
• Part IV Evaluation Methods • Part V Input / Output • Part VI Interfaces
• Part VII Interaction • Part VIII Accessibility • Part IX Social •
Part X Communities • Part XI Applications

Readership: Practitioners and researchers in human-computer interaction including designers of new products, evaluators and testers, students and teachers.

2-Volume Set • Reference • 9781118976135 • Jan-18 • Cloth • 1040pp • US\$436.75
Online ISBN: 9781118976005





The Wiley Blackwell Encyclopedia of Urban and Regional Studies

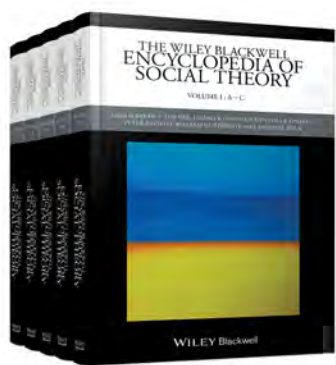
(Editor-in-Chief) Anthony M. Orum

A comprehensive coverage of major topics in urban and regional studies - through an examination of urban and regional conditions and variation across the world. *The Wiley Blackwell Encyclopedia of Urban and Regional Studies* comprises of over 450 authoritative entries on topics ranging from gender and the city to biographical profiles of figures like Frank Lloyd Wright, and provides a global perspective with coverage of Latin America and Africa, India and China, and, the US and Europe.

Volume I: A - D • Volume II: E - K • Volume III: L - Q • Volume IV: R - T • Volume V: U - Z

Readership: Students and researchers in urban and regional studies, urban sociology, urban geography, and urban anthropology.

5-Volume Set • Reference • 9781118568453 • Feb-19 • Cloth • 4000pp • US\$795.00
Online ISBN: 9781118568446



The Wiley-Blackwell Encyclopedia of Social Theory

(Edited by) Bryan S. Turner, Chang Kyung-Sup, Cynthia F. Epstein, Peter Kivisto, et al.

The Wiley Blackwell Encyclopedia of Social Theory presents a comprehensive, interdisciplinary compendium of original entries focusing on the origins, evolution, and global development of contemporary social theory. Featuring contributions from a wide range of international scholars, more than 850 entries cover all major concepts, schools of thought, key theories, theorists, and current trends relating to social theory.

Volume I: A - C • Volume II: D - G • Volume III: H - M • Volume IV: N - R • Volume V: S - Z

Readership: Undergraduate and graduate level students for courses in the social sciences, including legal, political, economic and psychological theory; also as a reference work for social theory scholars and academics.

5-Volume Set • Reference • 9781118430866 • Oct-17 • Cloth • 2864pp • US\$1,034.75
Online ISBN: 9781118430873



Clinical Small Animal Internal Medicine

(Edited by) David Bruyette

Clinical Small Animal Internal Medicine is a comprehensive, practical reference designed to meet the needs of veterinary practitioners and students alike. Covering all aspects of small animal internal medicine, this innovative guide provides clinically relevant material, plus podcasts and continual updates online. Concise, identically-formatted chapters allow readers to quickly find the most essential information for clinical veterinary practice.

Volume I • 1. Evaluation and Management of the Patient • 2. Endocrine Disease • 3. Cardiovascular Disease • 4. Respiratory Disease • 5. Critical Care Medicine • 6. Gastrointestinal Disease • 7. Diseases of the Liver, Gallbladder, and Bile Ducts • 8. Neurologic Disease • **Volume II** • 9. Infectious Disease • 10. Renal and Genitourinary Disease • 11. Oncologic Disease • 12. Skin and Ear Diseases • 13. Diseases of Bone and Joint • 14. Social and Ethical Issues in Veterinary Medicine • 15. Preventative Care • 16. Laboratory Support

Readership: Small animal practitioners and veterinary students.

2-Volume Set • Reference • 9781118497067 • Apr-20 • Cloth • 1664pp • US\$249.99
Online ISBN: 9781119501237



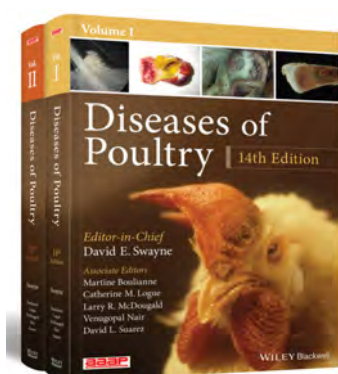
Veterinary Ophthalmology, 6th Edition

(Edited by) Kirk N. Gelatt

Offering the very latest in diagnostics and therapeutics, this book presents a fully updated and revised edition of the definitive reference to veterinary ophthalmology. *Veterinary Ophthalmology* discusses all topics relevant to diagnosing, treating, and managing any disease related to the eye, covering both basic sciences and clinical treatment. It is a state-of-the-art text that encompasses ophthalmology in all species, expanding coverage of ocular conditions in cats, horses, and birds—and featuring with nearly two thousand color photographs and illustrations.

Readership: Veterinary ophthalmologists, specialists in other areas, general practitioners, residents, interns, veterinary students.

2-Volume Set • Reference • 9781119441830 • Jul-20 • Cloth • 2260pp • US\$TBA
Previous print edition: 9780470960400



Diseases of Poultry, 14th Edition

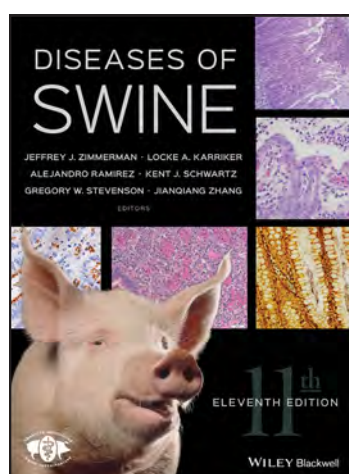
(Editor-in-Chief) David E. Swayne

The most complete and definitive reference to all aspects of poultry diseases, *Diseases of Poultry* has been fully revised and updated to offer a comprehensive survey of current knowledge. Written by international experts on the topic, the new edition has been expanded to incorporate the most recent advances in the field, exploring new diagnostic tools, recently discovered information to changes brought about by the increasing globalization and the re-emergence of zoonotic pathogens, and recent outbreaks in poultry, providing a complete picture of current understanding.

Section I General Concepts of Poultry Diseases • Section II Viral Diseases
• Section III Bacterial Diseases • Section IV Fungal Diseases • Section V
Parasitic Diseases • Section VI Noninfectious Diseases • Section VII Other
Diseases

Readership: Poultry veterinarians, veterinary diagnosticians, poultry scientists and students within veterinary medical curriculum who are specializing in poultry health or graduate students in poultry health and poultry science, and government officials who deal with poultry health.

2-Volume Set • Reference • 9781119371168 • Nov-19 • Cloth • 1488pp • US\$249.95
Online ISBN: 9781119371199 • Previous print edition: 9780470958995



Diseases of Swine, 11th Edition

(Editors) Jeffrey J. Zimmerman, Locke A. Karriker, Alejandro Ramirez, Kent J. Schwartz, et al.

Diseases of Swine has been the definitive reference on swine health and disease for over 60 years. This new edition has been completely revised to include the latest information, developments, and research in the field. Now with full color images throughout, this comprehensive and authoritative resource has been redesigned for improved consistency and readability, with a reorganized format for more intuitive access to information.

Readership: Practicing swine veterinarians, academicians, veterinary student, and individuals and agencies responsible for swine health, public health, and/or zoonotic diseases.

Reference • 9781119350859 • Apr-19 • Cloth • 1136pp • US\$249.95
Online ISBN: 9781119350927 • Previous print edition: 9780813822679

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27	Cardiac Mapping, 5th Edition	9781119152590	Shenasa, Hindricks, Callans, Miller, Josephson	420.00	
4	Catalysis from A to Z, 5th Edition	9783527343119	Cornils, Herrmann, Xu, Zanthoff	Introductory price \$1200 until 29-Feb 2020	
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63	Clinical Small Animal Internal Medicine	9781118497067	Bruyette	249.99	
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