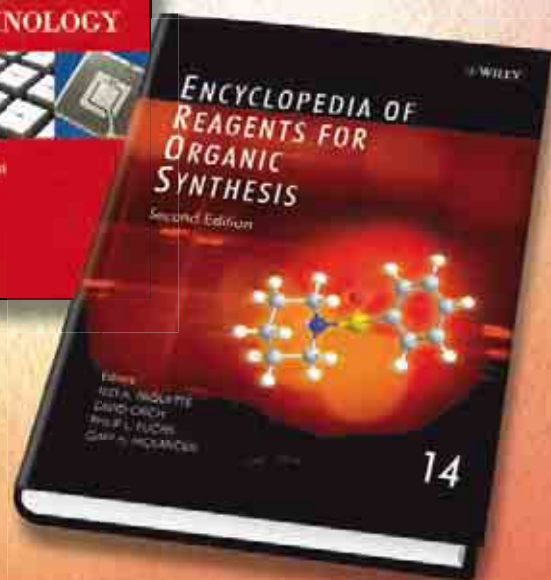
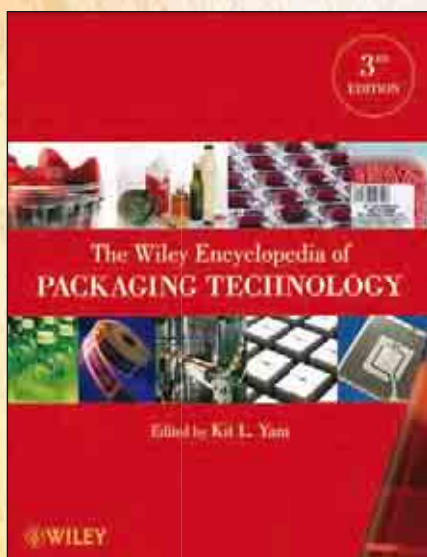
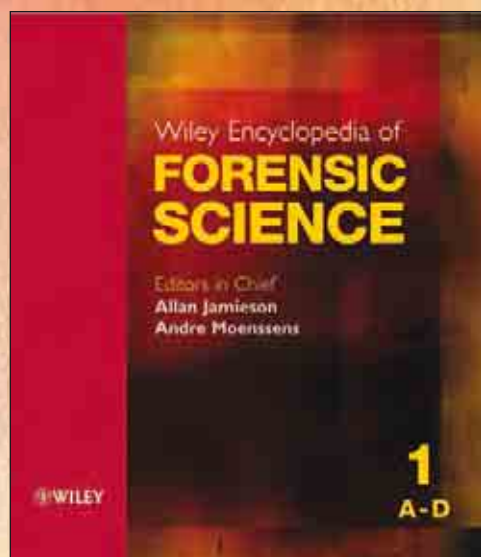


Scientific References

FOR THE COMPLETE LIBRARY

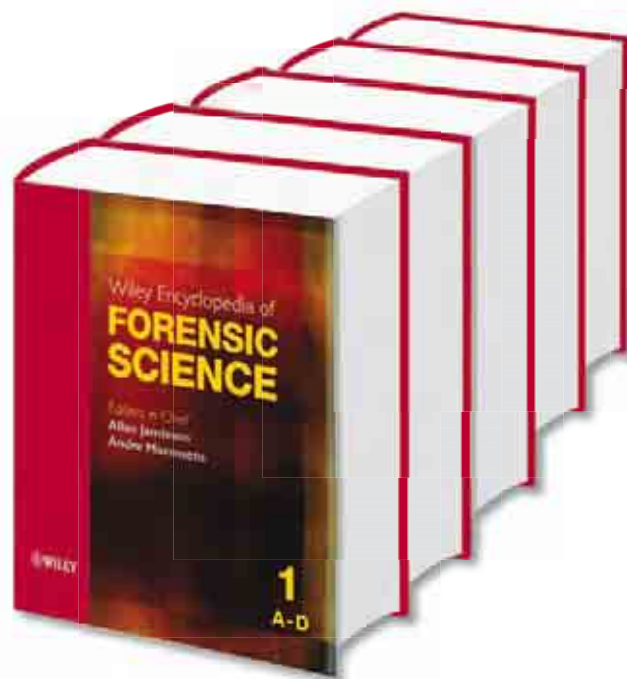
Wiley Delivers the Works You Want.



 **WILEY-BLACKWELL**  **WILEY-VCH**

WHEN IT COMES TO THE PUBLICATION of reference works for the scientific and technical communities, there are certain advantages inherent in Wiley's publishing program that set our works apart. Not least among these is the status of our authors and editors: each and all esteemed innovators and educators in their respective fields, even the occasional Nobel laureate. Then, there's the reputation we've established among students, researchers, and practitioners alike. They know they can always count on Wiley for references that are, at once, accessible, reliable, and readily applicable in the course of their daily work. Ours are the references they ask for . . . and reach for . . . again and again. So when you're contemplating which scientific references you need to build the kind of library you want, consider these reference works from Wiley.

WE'RE THE RIGHT CHOICE, EVERY TIME.



Wiley Encyclopedia of Forensic Science

new

Allan Jamieson, *The Forensic Inst., UK*;
Andre Moenssens, *Forensic Consultant*; Editors

This A-to-Z encyclopedia is a comprehensive, definitive, and up-to-date resource that covers the main areas of knowledge and skills used by those involved in all aspects of the forensic process; including, but not limited to, forensic scientists, doctors, practicing and academic lawyers, paralegals, police, crime scene investigators, analytical chemists, behavioral scientists, and toxicologists.

In five volumes, the *Wiley Encyclopedia of Forensic Science* covers all topics which, either as part of an established or as a potentially emerging forensic discipline, are of interest to those involved in the field. This coverage embraces both the scientific methodology and the admissibility of evidence. The *Encyclopedia* also provides revealing discussions of landmark cases that have influenced the very definition and practice of forensic science.

The *Wiley Encyclopedia of Forensic Science* presents all material on a level and in a style that makes it accessible to a wide range of readers. In particular, lawyers who need to better understand the key aspects of the science and scientists who require deeper insight into legal issues. Also physical, biological, and behavioral scientists who require background information on the most vital aspects of one another's areas of expertise.

Hardcover 3104 pages 2009 ISBN 978-0-470-01826-2

USD \$1750.00/CAD \$2100.00/£875.00/€1299.00

Prices listed for this product are introductory prices that already reflect a special discount and are not subject to further reduction—including the discount advertised in this catalog—until the introductory pricing expires on June 30, 2009.



The Wiley Encyclopedia of Packaging Technology

new

THIRD EDITION

Kit L. Yam, Editor

Written by renowned experts, this text describes the entire packaging process and includes an extensive bibliography. Reflecting developments in the field over the past decade, the coverage includes new technologies, materials, processes, regulations, marketing, economics,

recycling, computer-aided design, nutritional labels, and more. With over 1,200 pages and more than 300 articles organized in alphabetical order, the new edition gives scientists and technologists much-needed information on traditional as well as modern processes, materials, and formats used to package consumer and industrial products including food, pharmaceuticals, chemicals, and hazardous materials, equipment, and more.

Hardcover 1250 pages 2009 ISBN 978-0-470-08704-6

USD \$295.00/CAD \$354.00/£197.00/€255.00

Prices listed for this product are introductory prices that already reflect a special discount and are not subject to further reduction—including the discount advertised in this catalog—until the introductory pricing expires on November 30, 2009.

Handbook of Green Chemistry

green chemistry

Paul T. Anastas, Yale Univ., USA; Series Editor

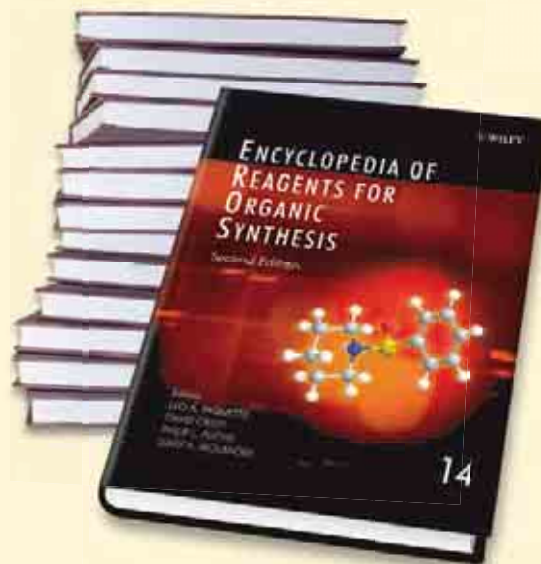
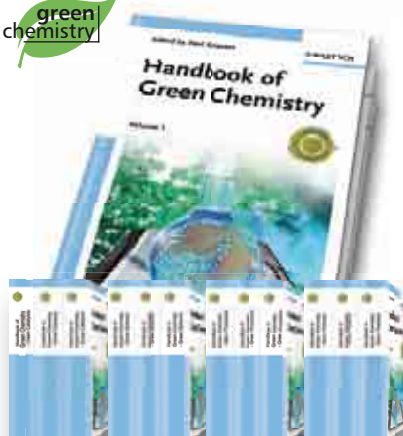
Edited by the originator of the famous 12 principles of green chemistry, this is an authoritative, on-stop reference that provides readers with everything they need to know about the field, including product and molecule

design and applications of green chemistry in real-world environmental situations. This set summarizes the significant body of work that has accumulated over the past decade, detailing the breakthroughs, innovation, and creativity within green chemistry and engineering. These 12 volumes provide a wealth of information resulting in an essential collection for anyone wishing to gain understanding and expertise regarding the world of green chemistry.

Hardcover 5200 pages 2011 ISBN 978-3-527-31404-1

USD \$2290.00/CAD \$2748.00/£1190.00/€1890.00

Prices listed for this product are introductory prices that already reflect a special discount and are not subject to further reduction—including the discount advertised in this catalog—until the introductory pricing expires.



Encyclopedia of Reagents for Organic Synthesis

new

SECOND EDITION

Leo A. Paquette, The Ohio State Univ., USA; Editor-in-Chief

"This should find an honored place in every laboratory engaged in synthesis and in every chemistry library. Chemists working on organic synthesis will gain a competitive advantage by keeping it within easy reach."

—Angewandte Chemie

At last, the long anticipated second edition of the highly successful *Encyclopedia of Reagents for Organic Synthesis* (EROS) is now available in print. With its wealth of valuable information, excellent editorial leadership and methodical classification, EROS is the authoritative reference regarding reagents and catalysts, which makes EROS vital reading for everyone working in organic synthesis.

New in the second edition of EROS

- More than 1,000 new reagents
- More than 620 updated reagents with additional new information added
- New types of reagents and catalysts
- INChI and InChIKeys added to CAS numbers in each article
- A standard citation style in the reference list for each reagent

Hardcover 12094 pages 2009 ISBN 978-0-470-01754-8

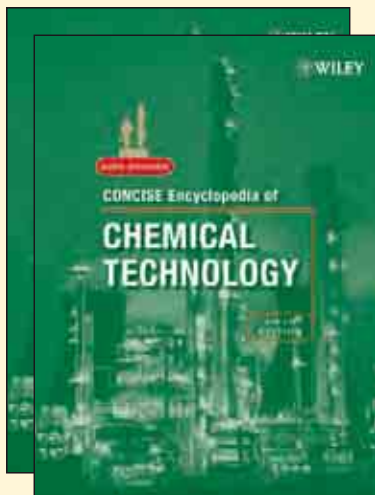
USD \$7000.00/CAD \$8400.00/£3500.00/€5449.00

Prices listed for this product are introductory prices that already reflect a special discount and are not subject to further reduction—including the discount advertised in this catalog—until the introductory pricing expires on September 30, 2009.



ON THE WEB

Get more information online at www.interscience.wiley.com/eros



Kirk-Othmer Encyclopedia of Chemical Technology

best seller

TWENTY-SEVEN VOLUME SET

"The most indispensable reference in the English language on all aspects of chemical technology . . . the best reference of its kind."—*Chemical Engineering News*

Widely considered to be the bible of chemical technology, the *Kirk-Othmer Encyclopedia of*

Chemical Technology has been a mainstay for chemists, chemical engineers, librarians, and researchers at academic, industrial, and government institutions since publication of the first edition in 1949. This new edition includes necessary adjustments and modernization of the content to reflect all of the latest changes and developments in chemical technology. You get more than 1,000 wide-ranging articles (more than 600 new or updated) on chemical substances, properties, manufacturing, and uses; on industrial processes and unit operations in chemical engineering; and on fundamentals and scientific subjects related to the field.

Hardcover 22950 pages 2004 ISBN 978-0-471-48494-3
USD \$8820.00/CAD \$10583.99/€5880.00/€7549.00



ON THE WEB

Get more information online at www.interscience.wiley.com/kirk



Kirk-Othmer Concise Encyclopedia of Chemical Technology

FIFTH EDITION, TWO-VOLUME SET

Kirk-Othmer

Published in 27 volumes, the *Kirk-Othmer Encyclopedia of Chemical Technology* is the definitive reference for working professionals and students. And now, you can have all of the critical information conveyed in those 27 volumes at your fingertips,

contained in an affordable two-volume resource. Derived from the full fifth edition of the original encyclopedia, this compact desk reference includes some 750 topics originally contained in the 27-volume set. Each original article was expertly chosen to ensure the relevancy of the end result. This distillation is a complete and self-contained encyclopedia, designed to serve as a ready guide for anyone seeking answers to questions on most any aspect of chemical technology.

Hardcover 2762 pages 2007 ISBN 978-0-470-04748-4 USD \$495.00/CAD \$593.99/€330.00/€425.00



Kirk-Othmer Chemical Technology and the Environment

green chemistry

TWO-VOLUME SET

Wiley

Essentially a specialized edition of the world-renowned *Kirk-Othmer Encyclopedia of Chemical Technology*, this two-volume reference delivers information that is specific to chemical technology as it relates to the environment. More than 70 self-contained

articles address contemporary issues in environmental pollution, prevention and control, and regulatory, health and safety issues as well. It introduces and expands the knowledge on emerging green materials and processes and greener energy technology in addition to more general concepts and methodology, including sustainable development and chemistry and green chemistry. It's a reference readers are sure to turn to time and time again.

Hardcover 2573 pages 2007 ISBN 978-0-470-10540-5 USD \$595.00/CAD \$713.99/€397.00/€509.00



Kirk-Othmer Food and Feed Technology

TWO-VOLUME SET

Wiley

With selected articles from the fifth edition of the *Kirk-Othmer Encyclopedia of Chemical Technology*, this two-volume set includes more than 60 self-contained articles on the production and processing of human foods and beverages; and coverage of such topics as flavors and food additives; fats, fatty

oils, and fat substitutes; food packaging; and safety and regulatory issues. Article topics include, bakery products, meats, dairy products, wheat and other cereal grains, coffee, tea, wine and beer, as well as animal feed. The articles discuss principles, processes, and equipment, and related subjects such as food packaging and regulatory issues.

Hardcover 1760 pages 2008 ISBN 978-0-470-17448-7 USD \$485.00/CAD \$581.99/€323.00/€415.00



Kirk-Othmer Separation Technology

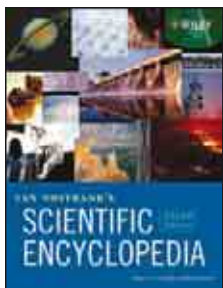
TWO-VOLUME SET

Wiley

In this rigorous look at the subject, readers will discover more than 70 self-contained articles that explore the principles on which separation processes are based, such as process design, equipment, operation, and the use of old and new separation processes. Not only has the content been expanded, updated

and modernized vis-à-vis the first edition, but energy and environmental considerations, as well as economic aspects, are also thoroughly examined. Covering a wealth of critical topics, the articles found here have been arranged alphabetically for ease of use and focus on both established and newer separation processes of industrial importance.

Hardcover 2544 pages 2008 ISBN 978-0-470-12741-4 USD \$630.00/CAD \$755.99/€420.00/€539.00



Van Nostrand's Scientific Encyclopedia

best seller

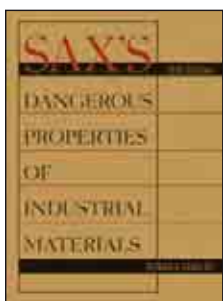
TENTH EDITION
THREE-VOLUME SET

Glenn D. Considine, *CIP, Inc., USA*;
Editor-in-Chief

"... still one of the best concise encyclopedias for the sciences."—*Library Journal Reviews*

The *Scientific Encyclopedia* has long enjoyed a reputation as one of the most important comprehensive general scientific references available, suitable for both academic and professional environments. With more than 10,000 entries, this outstanding reference remains the definitive scientific resource with topics spanning all scientific disciplines, including life sciences, earth and atmospheric sciences, physical sciences, medicine, mathematics, and many areas of engineering and technology. These three volumes are built on the previous edition, with extensive revisions and updates and more than 2,000 new articles.

Hardcover 6236 pages 2008 ISBN 978-0-471-74338-5 USD \$495.00/CAD \$434.99/£330.00/€425.00



Sax's Dangerous Properties of Industrial Materials

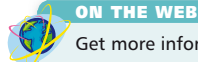
best seller

ELEVENTH EDITION

Richard J. Lewis, *Lewis Information Systems, USA*

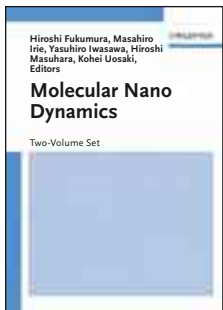
Since its inception in the early 1950's, *Sax's* has become the number one resource for people who need to evaluate the hazards of substances used in commerce. Now in its eleventh edition, it contains extensive data on approximately 26,000 substances, including 2000 new entries. The three-volume set now lists Immediately Dangerous Life or Health (IDLH) levels for approximately 1,000 chemicals, providing essential information for designing adequate ventilation systems and selecting respiratory protection. Also includes an appendix containing information on nerve gases and biological agents that might endanger the workplace as a result of terrorist activity.

Hardcover 4860 pages 2004 ISBN 978-0-471-47662-7 USD \$650.00/CAD \$779.99/£433.00/€555.00



ON THE WEB

Get more information online at www.interscience.wiley.com/sax



Molecular Nano Dynamics

volume set

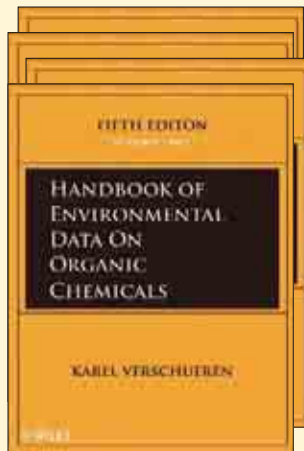
TWO-VOLUME SET

Hiroshi Fukumura, *Tohoku University, Japan*; Masahiro Irie, *Rikkyo University, Japan*; Yasuhiro Iwasawa, *The University of Tokyo, Japan*; Hiroshi Masuhara, *Hamano Foundation, Japan*; Kohei Uosaki, *Hokkaido University, Japan*; Editors

From artificial surfaces to living cells, *Molecular Nano Dynamics* explores more than 40 important methods for dynamic observation

of the nanoscale. This two-volume set covers all important aspects of the topic: nanoscale spectroscopy and characterization tools, nanostructure dynamics, single living cell dynamics, active surfaces, and single crystals.

Hardcover 704 pages 2009 ISBN 978-3-527-32017-2 USD \$460.00/CAD \$552.00/£190.00/€249.00



Handbook of Environmental Data on Organic Chemicals

new

FOUR-VOLUME SET

Karel Verschueren, *IMdMICON Environmental Consultancy and Services, A Heidemij Company*

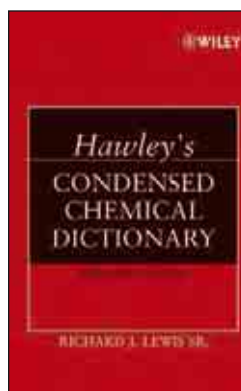
All of the information you need to use potentially dangerous chemicals prudently. Arranged in alphabetical order by chemical name, this reference provides synonyms, CAS numbers, and molecular and structural formulas. It covers

natural and man-made sources of a substance, their uses, and various formulations. Each substance is categorized by physical and chemical properties, air pollution factors, water and soil pollution factors, and biological effects. Pesticides, detergents, phthalates, polynuclear aromatics, and polychlorinated biphenyls are all covered. Features information on aquatic toxicity and biological effects, odor thresholds, sampling and analysis data, and structural formulas of over 3,000 chemicals.

Hardcover 4486 pages 2008 ISBN 978-0-470-17172-1 USD \$695.00/CAD \$954.00/£468.00/€599.00
CD-ROM 2009 ISBN 978-0-470-17174-5 USD \$695.00/CAD \$834.00/£409.00/€669.00



Hardcover & CD-ROM Set 2009 ISBN 978-0-470-17173-8
USD \$895.00/CAD \$1074.00/£526.00/€749.00



Hawley's Condensed Chemical Dictionary

best seller

FIFTEENTH EDITION

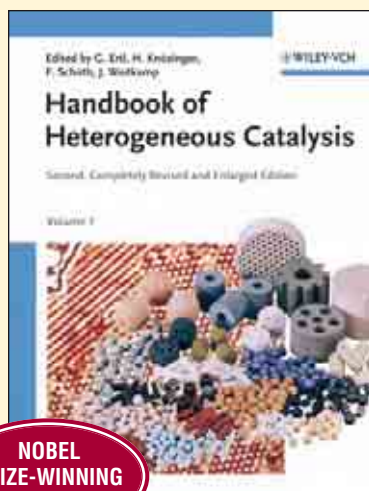
Richard J. Lewis, *Lewis Information Systems, Cincinnati, USA*

For some eighty-eight years now, and through 15 editions, *Hawley's Condensed Chemical Dictionary* has become the resource professionals turn to when they need quick, accurate information on a universe of chemicals and their attendant properties. *Hawley's* is not a dictionary in the usual sense of an assemblage of brief

definitions, but rather a compendium of technical data and descriptive information covering many thousands of chemicals and chemical phenomena, organized in such a way as to meet the needs of those who have only minutes to devote to any given substance or topic. New to this edition are more than 4,200 new or updated entries, over 700 entries that reflect the growing interest in biochemistry, and more than 90 terms relating to nano technology have been added. We've also added nearly 3,000 new chemicals, including trade-name products.

Hardcover 1400 pages 2007 ISBN 978-0-471-76865-4 USD \$165.00/CAD \$197.99/£110.00/€139.00
CD-ROM 2007 ISBN 978-0-471-76896-8 USD \$165.00/CAD \$197.99/£110.00/€159.00

Hardcover & CD-ROM Set 2007 ISBN 978-0-470-12482-6 USD \$270.00/CAD \$323.99/£180.00/€229.00



**NOBEL
PRIZE-WINNING
EDITOR!**

Handbook of Heterogeneous Catalysis

SECOND EDITION
EIGHT VOLUMES

Gerhard Ertl, *Fritz-Haber-Inst. der Max-Planck-Gesellschaft, Germany*; Helmut Knözinger, *Univ. Munchen, Germany*; Ferdi Schüth, *MPI für Kohlenforschung, Germany*; Jens Weitkamp, *Univ. of Stuttgart, Germany*; Editors

Starting with the invention of Döbereiner's tinder box and reaching importance

with Haber's development of ammonia synthesis, heterogeneous catalysis has become a multi-billion dollar business of huge industrial importance and still a major topic of research. Now in eight volumes, the completely revised and expanded second edition of this much-cited handbook collates this knowledge, providing easy-to-find yet comprehensive information.

The new edition contains 80 percent more material and takes into account the latest developments, making it still the most up-to-date compendium in heterogeneous catalysis. More than 300 leading experts—a veritable who's who in catalysis—have contributed to this unrivalled masterpiece, covering all aspects from the physico-chemical foundations to large-scale industrial applications.

From the contents:

- Preparation of Solid Catalysts
- Characterization of Solid Catalysts
- Model Systems
- Elementary Steps and Mechanisms
- Kinetics and Transport Processes
- Deactivation and Regeneration
- Special Catalytic Systems
- Laboratory Reactors
- Reaction Engineering
- Environmental Catalysis
- Inorganic Reactions
- Energy-related Catalysis
- Organic Reactions

With its straightforward presentation, this is an essential and indispensable tool for every scientist working in this area.

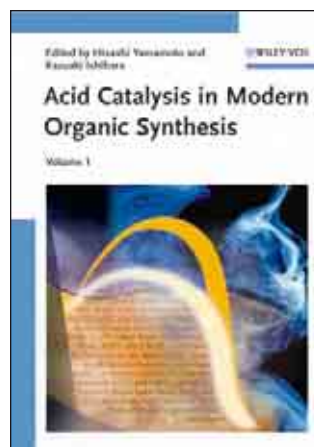
Hardcover 4270 pages 2008 ISBN 978-3-527-31241-2

USD \$2355.00/CAD \$2825.99/£1700.00/€1999.00



ON THE WEB

Get more information online at www.interscience.wiley.com/hetcat



Acid Catalysis in Modern Organic Synthesis

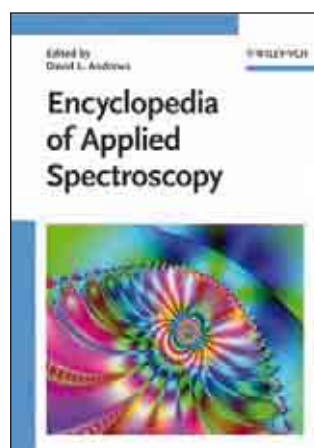
TWO-VOLUME SET

Hisashi Yamamoto, *Univ. of Chicago, USA*; Kazuaki Ishihara, *Nagoya Univ., Japan*; Editors

From the editor of Wiley's bestselling title *Lewis Acids in Organic Synthesis*, this new two-volume set, *Acid Catalysis in Modern Organic Synthesis*, covers all the newest developments in acid catalysis. Crucially, it includes the hot concept of combined Bronsted and Lewis

acid catalysis, developed by Hisashi Yamamoto himself. The excellent editorial panel has put together a leading team of authors, resulting in a true treasure trove of essential information—making this a must-have for every chemist working in organic chemistry and catalysis, in academia as well as in industry.

Hardcover 1136 pages 2008 ISBN 978-3-527-31724-0 USD \$435.00/CAD \$521.99/£340.00/€399.00



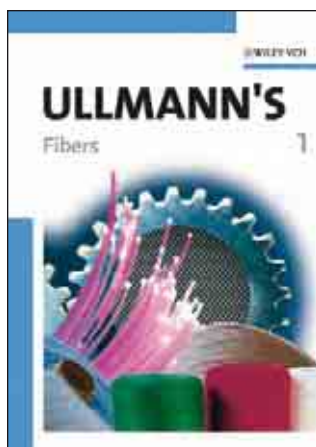
Encyclopedia of Applied Spectroscopy

David L. Andrews, *Univ. of East Anglia, Norwich, GB*; Editor

This latest comprehensive reference on spectroscopy and spectrographs systematically covers the associated theory, hardware, and applications. Edited by an author and scientist of international repute, this handbook features color figures as well as abstracts and detailed tables of contents for easy access. Following PhD studies in chemistry at University

College London, the author was elected a Fellow of the Royal Society of Chemistry in 1988, a Fellow of the Institute of Physics in 1999, and a Fellow of the International Society for Optical Engineering, in 2006. The sum of which makes this reference a must-have for those working in all branches of spectroscopy.

Hardcover 1200 pages 2009 ISBN 978-3-527-40773-6 USD \$620.00/CAD \$744.00/£300.00/€429.00



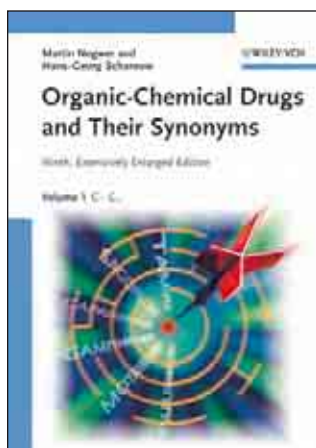
Ullmann's Fibers

Wiley-VCH, Editor

Based on the latest online edition of *Ullmann's Encyclopedia of Industrial Chemistry*, and containing contributions never seen before in print—including cutting-edge information on nano-carbon materials, carbon fibers, and fiber optics—this ready reference meets the need for a comprehensive survey of the fundamentals, production technologies, and applications of all types of fibers. The meticulous

edited articles were all written by renowned experts from industry and academia and much of the information has been thoroughly revised. A great affordable alternative to the original 40-volume set that condenses all the necessary information.

Hardcover 899 pages 2008 ISBN 978-3-527-31772-1 USD \$430.00/CAD \$515.99/£300.00/€349.00



Organic-Chemical Drugs and Their Synonyms

SEVEN-VOLUME SET
NINTH, COMPLETELY REVISED AND GREATLY ENLARGED EDITION

Martin Negwer,
Hans-Georg Scharnow

"The Negwer" is THE standard reference for all scientists concerned with drug development for now and many years to come. The 9th edition of this unparalleled work is now 25 percent larger, taking into account the rapidly increasing number of newly developed drugs. It now

includes data on 20,000 drugs—4,000 more than in the previous edition. Also new are the highlighted biopharmaceuticals, a more detailed and separate discussion of biological and biopharmaceutical information, plus an additional index for those drugs extracted from plants, animals or microorganisms.

Hardcover 5674 pages 2007 ISBN 978-3-527-31939-8
USD \$2590.00/CAD \$3107.99/£1530.00/€1799.00



Ullmann's Encyclopedia of Industrial Chemistry

SIXTH EDITION,
40-VOLUME SET
Wiley-VCH, Editor

Generations of chemists and engineers have relied on the well-structured and trusted information from *Ullmann's Encyclopedia*. *Ullmann's* is a synonym for the world's most current and trustworthy knowledge in everything that relates to the chemical industry, be it processes, chemicals, products, analytical chemistry, pharmaceuticals, or biotechnology.

You name it, *Ullmann's* has it—well over 800 articles on over 30,000 printed pages in 40 volumes.

Organized in alphabetical order, the chapters are easy to read and excellent starting points to introduce you to any topic. Over 15,000 tables and 25,000 figures (some of them in color) make it easy for you to quickly find what you are looking for. Finding what you need is very simple indeed and you won't have to ask for a user's manual for this massive work!

Supervised by an internationally acclaimed advisory board, the articles are written by more than 3,000 international experts from industry and universities, thoroughly edited to uniform style and layout in an in-house office. All figures are redrawn to give a maximum of clarity and uniformity in style. Compared to the prior edition, almost 60 percent of the material has either been newly written or thoroughly updated.

Hardcover 30080 pages 2003 ISBN 978-3-527-30385-4
USD \$9060.00/CAD \$10871.99/£5565.00/€6549.00



ON THE WEB

Get more information online at www.interscience.wiley.com/ueic

The book you want.

When you need it. Wherever you are.

Thousands of Wiley books are available to read online via Wiley InterScience OnlineBooks™.

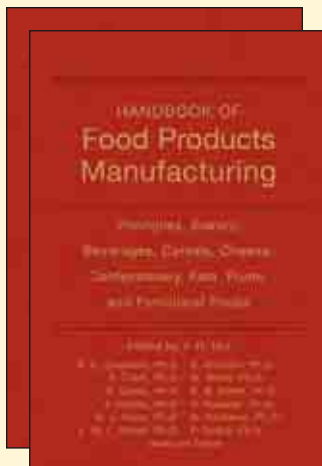
For all your research needs—visit Wiley InterScience and contact your library to ensure you have access.

www.interscience.wiley.com/onlinebooks



OnlineBooks™

best
seller



Handbook of Food Products Manufacturing

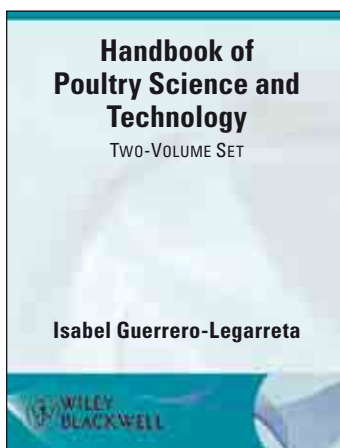
TWO-VOLUME SET

Y. H. Hui; Ramesh C. Chandan; Stephanie Clark; Nanna A. Cross; Joannie C. Dobbs; W. Jeffrey Hurst, *Hershey Foods Corporation, USA*; Leo M.L. Nollet; Eyal Shimoni; Erika B. Smith; Somjit Surapat; Fidel Toldrá; Alan Titchenal; Nirmal Sinha; Editors

Written by an all-star team of experts from around the globe, this volume provides an integrated overview of the cutting-edge field of nutritional genomics.

The authors and editors lead in-depth discussions of the fundamental principles and scientific methodologies that serve as the foundation for nutritional genomics and explore important recent advances in an array of related disciplines. Each self-contained chapter builds upon its predecessor, leading the reader seamlessly from basic principles to more complex scientific findings and experimental designs. Scientific chapters are carefully balanced with those addressing the social, ethical, regulatory, and commercial implications of nutrigenomics.

Hardcover 2308 pages 2007 ISBN 978-0-470-04964-8
USD \$565.00/CAD \$677.99/£377.00/€485.00



Handbook of Poultry Science and Technology

TWO-VOLUME SET

Isabel Guerrero-Legarreta

Handbook of Poultry Science and Technology

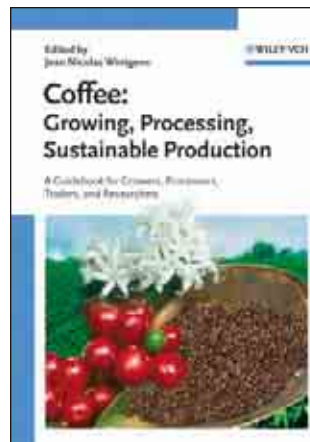
TWO-VOLUME SET

Isabel Guerrero-Legarreta, Editor

From live poultry up until retail production, *Handbook of Poultry Processing* provides an updated and comprehensive reference on everything related to the poultry industry, including scientific, technical, and engineering principles, methods, and prod-

uct categories, as well as safety requirements and regulatory enforcement in the US, EU, and Asia. This definitive resource covers the link between meat quality and production process, which can help in solving potential quality problems, making this two-volume set an essential tool for all practitioners, libraries, scientists, researchers, and academics in this field.

Hardcover 1200 pages 2009 ISBN 978-0-470-18537-7
USD \$350.00/CAD \$420.00/£219.00/€279.00



Coffee: Growing, Processing, Sustainable Production

new

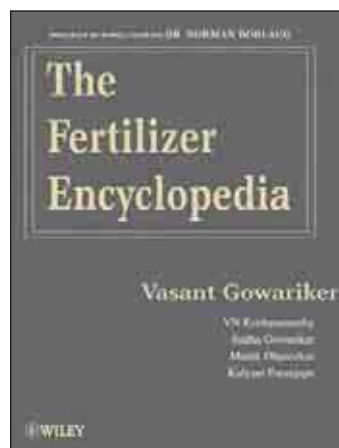
A Guidebook for Growers, Processors, Traders, and Researchers

Jean Nicolas Wintgens, Editor

Capturing the entire value creation chain, this practical guide describes methods of coffee cultivation, harvesting, processing, storage, quality assessment, and economics. Written by the leading experts in the business, and endorsed by the International

Coffee Organization and the Specialty Coffee Organization of America, this book incorporates the latest research on the coffee plant, its pests and diseases, as well as biotechnological methods for improving breeds. It is unique in addressing the long-term sustainability of current coffee production methods, showing modern alternatives to traditional practices. Richly illustrated with more than 900 color photographs, drawings, and diagrams *Coffee* is the single most comprehensive, practice-oriented guidebook for coffee producers, traders, and researchers.

Hardcover 1040 pages 2009 ISBN 978-3-527-32286-2
USD \$445.00/CAD \$516.00/£245.00/€329.00



The Fertilizer Encyclopedia

Vasant Gowariker, V. N. Krishnamurthy, Sudha Gowariker, Manik Dhanorkar, Kalyani Paranjape, Editors

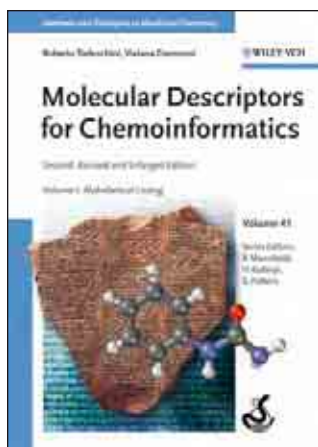
MM: Could use a bit more copy info.

Featuring nearly 4,500 terms of interest to all scientists and researchers dealing with fertilizers, *The Fertilizer Encyclopedia* compiles a wealth of information on the chemical composition of fertilizers and includes information on everything from manufacturing and applications to economical and environmental considerations. It covers behavior in soil, chemical and physical characteristics, physiological roles in plant growth and soil fertility, and more. It's the definitive, up-to-date reference on fertilizers you need.

Hardcover 880 pages 2008 ISBN 978-0-470-41034-9
USD \$350.00/CAD \$420.00/£233.00/€299.00

ON THE WEB

Get more information online at www.interscience.wiley.com/onlinebooks



Molecular Descriptors for Chemoinformatics

TWO-VOLUME SET

Roberto Todeschini;
Viviana Consonni,
both of Univ. of Milan-
Bicocca, Italy; Editors

The number-one reference on the topic now contains a wealth of new data. The first volume contains an alphabetical listing of some 3,300 terms for the chemoinformatic analysis

of chemical compound properties, while the second volume contains 6,343 references selected from 450 journals with about 7,000 authors quoted covering the period from the beginning of molecular descriptor research until the year 2008. In this second edition, the greatly expanded introductory section has been completely re-written and now contains several reading lists of selected keywords that make the data even more accessible for novice users.

METHODS AND PRINCIPLES IN MEDICINAL CHEMISTRY

Hardcover 1276 pages 2009 ISBN 978-3-527-31852-0

USD \$460.00/CAD \$534.00/£270.00/€379.00



Wiley Encyclopedia of Chemical Biology

new

FOUR-VOLUME SET

Wiley

The *Wiley Encyclopedia of Chemical Biology* is an authoritative new work that illuminates the crucial role of chemistry and chemical techniques in the life sciences. It leverages an inclusive editorial approach, encompassing fundamental and blue-sky science as well as those areas of research that have more immediate medical or commercial applications. The scope and structure of the work reflects the multidimensional character of chemical biology, focusing in particular on the

fundamental science of biological structures and systems, the use of chemical and biological techniques to elucidate that science, and the applications of this knowledge in areas as diverse as drug discovery, sensor technology, and catalysis.

Major topics areas covered in the encyclopedia:

- Chemical Views of Biology
- Biomolecules within the Cell
- Chemistry of Biological Processes and Systems
- Chemical Biology of Cellular Compartments
- Synthetic Molecules as Tools for Chemical Biology
- Technologies and Techniques in Chemical Biology
- Applications of Chemical Biology

Hardcover 3188 pages 2009 ISBN 978-0-471-75477-0 USD \$1200.00/CAD \$1680.00/£737.00/€945.00

Prices listed for this product are introductory prices that already reflect a special discount and are not subject to further reduction-- including the discount advertised in this catalog--until the introductory pricing expires on June 30, 2009.



ON THE WEB

Get more information online at
www.interscience.wiley.com/reference/wecb

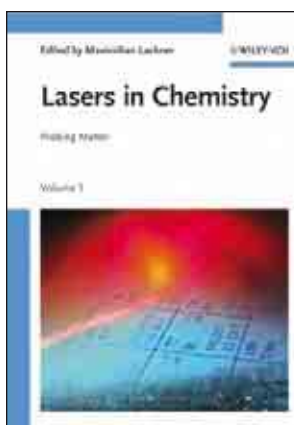
WILEY-BLACKWELL
ONLINE REFERENCE WORKS

KNOWLEDGE ENDURES.
For trusted, time-tested knowledge, give your students and researchers online access to monumental resources of enduring relevance—Wiley-Blackwell Online Reference Works.

This rich and comprehensive online library combines powerful searching and cross-linking capabilities with classic and cutting-edge content presented in our multi-volume encyclopedias, handbooks, and dictionaries covering the sciences, technology, medicine, social sciences, and humanities.

With 100 titles now online, **Wiley-Blackwell Online Reference Works** ensure that your library offers a vast portal to recognized content of immediate value and enduring worth.

For your free trial, visit www.interscience.wiley.com/reference



Lasers in Chemistry

Probing and Influencing Matter

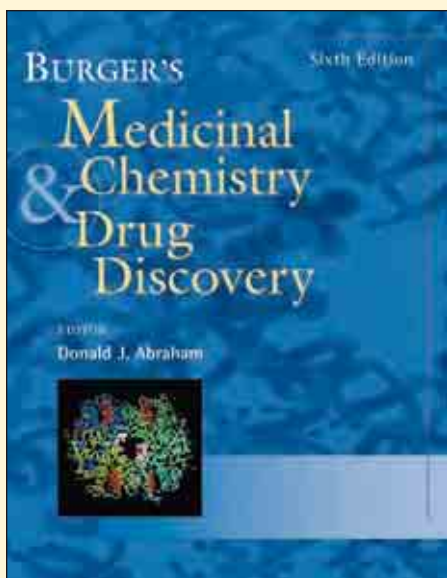
TWO-VOLUME SET

Maximilian Lackner, Vienna Univ. of
Technology, Austria; Editor

Since its invention in the 1960s, the laser has revolutionized many disciplines in science, technology, and everyday life. In chemistry, lasers can be used not only to study compounds and materials, but also to influence and even start reactions. By manipulating the reaction conditions and hitherto inaccessible material properties, reaction pathways and improved results can

be achieved. Using lasers to probe and manipulate matter are the broad subjects examined in-depth in these two volumes, with applications spanning chemistry, physics, materials science, biology, and medicine. You also get an equipment and peripherals overview for laser probing and laser chemistry setups.

Hardcover 1554 pages 2008 ISBN 978-3-527-31997-8 USD \$505.00/CAD \$606.00/£265.00/€349.00



Burger's Medicinal Chemistry and Drug Discovery

SIX-VOLUME SET

Donald J. Abraham, Editor

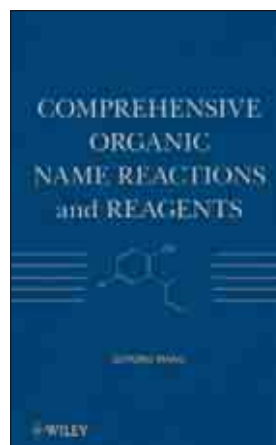
“... An essential addition to the libraries of any medicinal chemist... an outstanding work... highly praised as a fountain of information in drug studies and research.” – *Journal of Medicinal Chemistry*

Reacquaint yourself with both traditional and state-of-the-art principles and practices governing new medicinal drug research and development with this new edition of Dr. Alfred Burger's internationally celebrated classic.

Completely updated and revised to reflect the many monumental changes that have occurred in the field, this latest edition brings together contributions by experts in a wide range of related fields to explore recent advances in the understanding of the structural biology of drug action, as well as cutting-edge technologies for drug discovery now in use around the world.

This sixth edition has been expanded to six volumes: Volume 1: Virtual Screening, Bioinformatics and Chemical Information Computing Systems in Drug Discovery; Volume 2: Combinational Chemistry and Multiple Parallel Synthesis, High Throughput Pharmacology, and Retrometabolism-Based Drug Design and Targeting; Volume 3: Endogenous Vasoactive Peptides, Iron Chelators and Therapeutic Uses, and Fundamentals of Steroid Chemistry and Biochemistry; Volume 4: Peptide and Protein Hormones, Peptide Neurotransmitters, and Therapeutic Agents, Vitamins and SNPs: Single Nucleotide Polymorphisms and Pharmacogenomics; Volume 5: Molecular Biology of Cancer, Synthetic Anti-angiogenic Agents and Selective Toxicities; Volume 6: Alzheimer's Disease: Search for Therapeutics, Cognition Enhancers and Drugs to Treat Eating and Body Weight Disorders.

Hardcover 5568 pages 2003 ISBN 978-0-471-37032-1
USD \$2595.00/CAD \$3113.99/£1730.00/€2199.00



Comprehensive Organic Name Reactions and Reagents

THREE-VOLUME SET

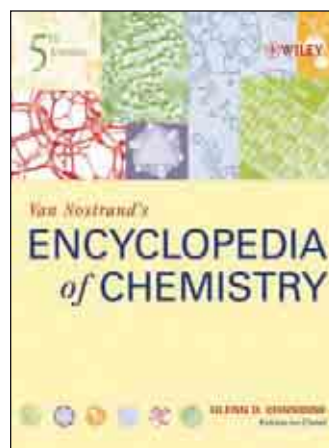
Zerong Wang

Simply put, this three-volume set is the most comprehensive collection of name reactions and reagents available today. *Comprehensive Organic Name Reactions and Reagents* includes descriptions of the reactions, reaction schemes, brief bio of the person(s) for whom a given reaction is named, proposed mechanisms, modifications (if applicable), applications, related

reactions (if applicable), experimental examples, and references. What's more, several indices—including one organized by reaction type—is included. A definite must for students and bench chemists navigating the ever-growing group of named reactions and reagents.

Hardcover 3824 pages 2009 ISBN 978-0-471-70450-8 USD \$495.00/CAD \$594.00/£330.00/€509.00

Prices listed for this product are introductory prices that already reflect a special discount and are not subject to further reduction—including the discount advertised in this catalog—until the introductory pricing expires on September 30, 2009.



Van Nostrand's Encyclopedia of Chemistry

new

FIFTH EDITION

Glenn D. Considine, CIP, Inc., USA

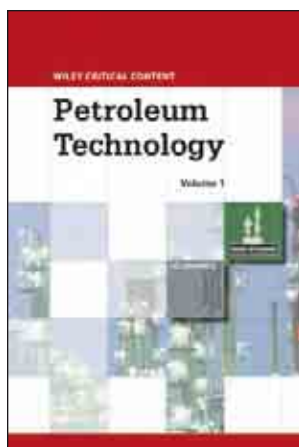
“Van Nostrand's is still one of the best concise encyclopedias for the sciences.” —LIBRARY JOURNAL REVIEWS

“Van Nostrand's is essential...” —CHOICE

Now in its fifth edition, *Van Nostrand's Encyclopedia of Chemistry* remains the go-to

reference for students, researchers, and practitioners in any number of disciplines in which chemistry plays a role. In addition to the standard topics you would expect to find in a comprehensive chemistry reference of this caliber, this encyclopedia also addresses nanotechnology, fuel cell technology, green chemistry, forensic chemistry, supramolecular chemistry, combinatorial chemistry, materials chemistry, and proteomics. In fact, with more than 200 fresh articles, more than 15 percent of this edition is totally new; the rest has been extensively revised and updated so that the information you receive is the very latest available. All of which ensures that Van Nostrand's is still the one classic you should always have at hand.

Hardcover 1856 pages 20085 ISBN 978-0-471-61525-5 USD \$235.00/CAD \$281.99/£57.00/€199.00



Wiley Critical Content

Petroleum Technology

TWO-VOLUME SET

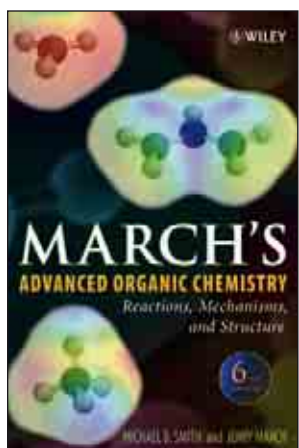
Wiley

"All professionals connected in any way with the science and industry of petroleum will find these incomparable volumes essential references."—**CHOICE**

Wiley Critical Content, Petroleum Technology, a comprehensive new reference for the petroleum industry, features articles from two of Wiley's most renowned chemical encyclopedias—the *Kirk-Othmer*

Encyclopedia of Chemical Technology and *Ullmann's Encyclopedia of Industrial Chemistry*. You get thorough, up-to-date information on all aspects of the field, including petroleum properties and origin, exploration, production and refining processes and products, economic issues, and environmental and health concerns. Readers will find broad introductory information as well as technical details relevant to both industrial environments and academic research.

Hardcover 2209 pages 2007 ISBN 978-0-470-13402-3 USD \$675.00/CAD \$809.99/£450.00/€579.00



March's Advanced Organic Chemistry

Reactions, Mechanisms, and Structure

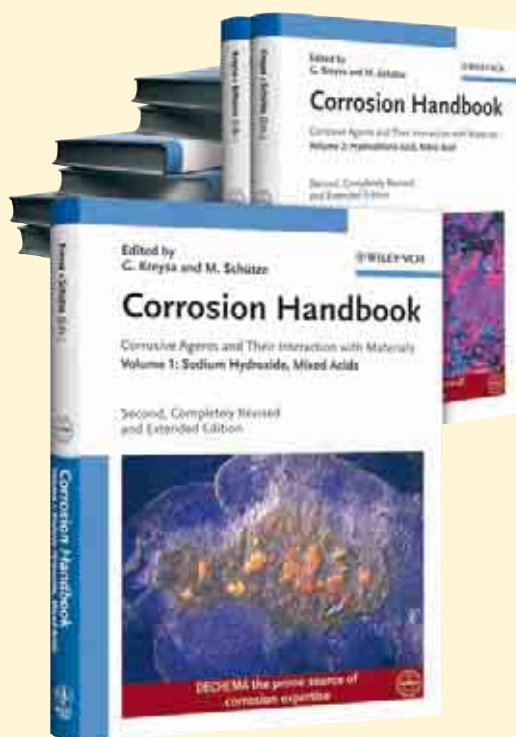
SIXTH EDITION

Michael B. Smith, *Univ. of Connecticut, USA*; Jerry March, *Adelphi Univ.*

Clearly explains the theories and examples of organic chemistry, providing the most comprehensive textbook in organic chemistry available. Better understand the planning and execution of multi-step synthetic reactions, with detailed descrip-

tions of all the reactions. Includes a concise appendix reviewing how to write reaction mechanisms and more than 25,000 valuable references to the primary literature. Also provides mechanisms that clearly explain concepts in modern terms. *March's Sixth Edition* proves again it is a must-have desktop reference and textbook for every student and professional working in organic chemistry or related fields.

Hardcover 2357 pages 2007 ISBN 978-0-471-72091-1 USD \$115.00/CAD \$137.99/£76.95/€97.90



Corrosion Handbook

THIRTEEN-VOLUME SET

Gerhard Kreysa; Michael Schütze, *both of DECHEMA e. V., Germany*; Editors

In everyday life, corrosion is usually associated with rusting car bodies or chain-link fences. But the technical definition of corrosion is, of course, broader and includes the reaction of materials with their environment, encompassing an enormous spectrum of effects, such as the discoloration or alteration of the taste of food products. Indeed, in virtually every industry where materials are processed, corrosion problems must be faced and the possibility of corrosive effects anticipated.

The *Corrosion Handbook* is a comprehensive collection of knowledge that is unique both in scope as well as content. It covers corrosion data and the chemical resistance of all technically important metallic, non-metallic, inorganic, and organic materials in contact with aggressive media.

What's more, the *Corrosion Handbook* describes methods of corrosion protection and prevention. All of which makes this the world's prime information source when it comes to addressing corrosion and selecting materials that will prevent corrosive effects in the first place.

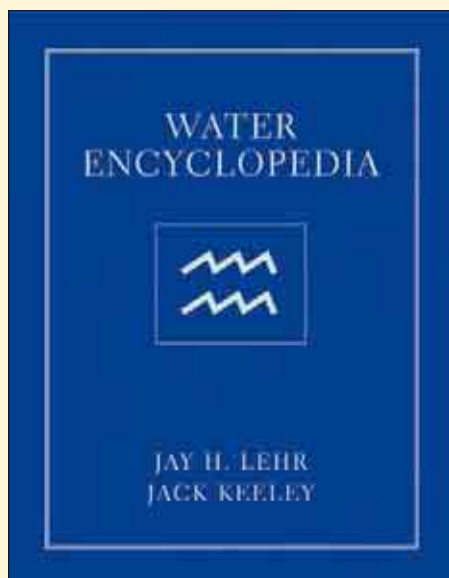
Hardcover 6500 pages 2005 ISBN 978-3-527-31217-7

USD \$6030.00/CAD \$7235.99/£3250.00/€4520.00



ON THE WEB

Get more information online at www.interscience.wiley.com/reference/ch



green
chemistry

Water Encyclopedia

FIVE-VOLUME SET

Jack Keeley; Editor

Jay H. Lehr, *Environmental Education Enterprises, USA*;
Editor-in-Chief

What separates Earth from every other planet is the existence of water. This five-volume set affords readers an in-depth exploration of this natural resource to provide a better understanding of its scientific and technological aspects. The *Water Encyclopedia* presents the reader with a comprehensive depository of the most current cutting-edge information available today. Leading experts in water-related fields offer their insight into a variety of different topics including water quality, wastewater, ground water, surface water, oceans, industrial water, water chemistry, drinking water, ultrapure water, and water resources.

Covering topics in a clear and authoritative manner, this detailed reference also offers:

- Discussions on the role of water in science, engineering and society
- Concise entries with cross-referencing to related longer pieces, making it easy for you to quickly find the information you need
- Expert narrative on all water related subjects
- A practical treatment of critical concepts

Because of the wide range of topics covered, the *Water Encyclopedia* is an excellent resource for wastewater, drinking water, and groundwater professionals, hydrologists, water chemists, oceanographers, earth scientists, geologists, chemical engineers, process engineers, and meteorologists.

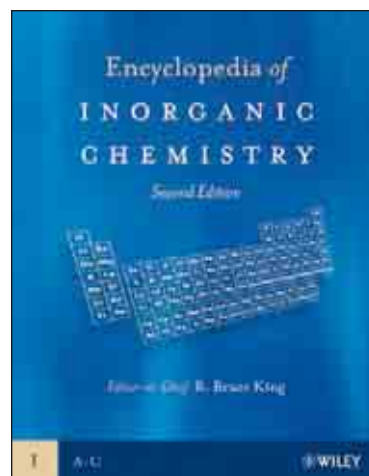
Hardcover 4112 pages 2005 ISBN 978-0-471-44164-9

USD \$1775.00/CAD \$2129.99/£1183.00/€1499.00



ON THE WEB

Get more information online at www.interscience.wiley.com/eow



best
seller

Encyclopedia of Inorganic Chemistry

SECOND EDITION
TEN-VOLUME SET

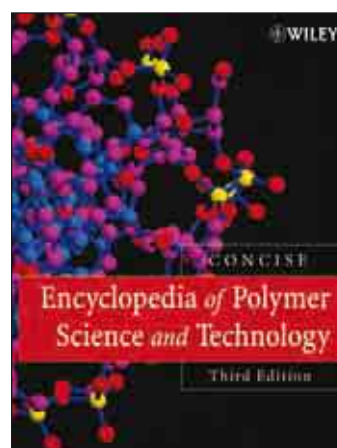
R. Bruce King, *Univ. of Georgia, USA*; Editor

First published ten years ago, Wiley's *Encyclopedia of Inorganic Chemistry* still stands as the ultimate source of information on inorganic chemistry. This ten-volume set has been completely revised and

expanded to reflect the myriad developments that have occurred in this vigorous field in the last decade. In fact, at 6,696 total pages, the set is now some thirty percent bigger than the first edition, including two additional volumes. With hundreds of articles by expert contributors from around the globe, this second edition of the *Encyclopedia of Inorganic Chemistry* is your go-to reference for the very latest information and technical guidance you need. Find out more about the amazing second edition; go to www.wiley.com/eic2.

Hardcover 6696 pages 2005 ISBN 978-0-470-86078-6

USD \$6200.00/CAD \$7439.99/£3300.00/€4249.00



Encyclopedia of Polymer Science and Technology

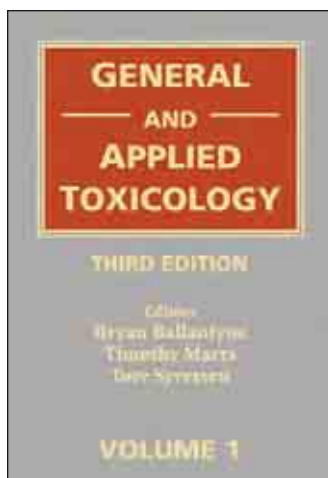
CONCISE, THIRD EDITION

Herman F. Mark; *Polytechnic Institute of New York, USA*

Derived from the full third edition of the *Encyclopedia of Polymer Science and Technology*, this compact desk reference includes all 350 topics contained in the twelve-volume set. As such, it is a complete and self-contained encyclopedia, designed to serve

as a ready guide for anyone seeking answers to questions on any aspect of polymer science and engineering. Like the ten-million-word parent work, this one-million-word edition brings you leading-edge coverage, updating the previous edition with practical discussions of nanotechnology, new imaging and analytical techniques, new methods of controlled polymer architecture, biomimetics, and more. It also gives you both SI and common units, carefully selected key references for each article, and hundreds of tables, charts, figures, and graphs. In short, you get it all . . . all in one place!

Hardcover 1462 pages 2007 ISBN 978-0-470-04610-4 USD \$395.00/CAD \$473.99/£263.00/€339.00



General and Applied Toxicology

THIRD EDITION
THREE-VOLUME SET

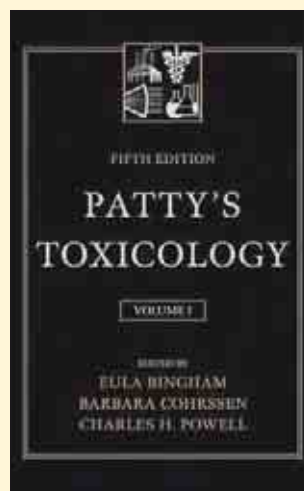
Bryan Ballantyne, Timothy C. Marrs, *Skipton House, London, UK*; Tore Syversen; Editors

Encompassing 150 articles written by experts in various aspects of toxicology, this new edition of *General and Applied Toxicology* delivers a comprehensive and in-depth review of the basic science of toxicology, its specializations,

and the application of toxicological knowledge. Arranged thematically, this three-volume reference contains new topic areas not found in the previous two editions, along with completely revised and restructured topics. The majority of articles are written at an advanced level, aimed at sophisticated undergraduate students, postgraduates, and research scientists, while overview articles are suitable for undergraduate students or newcomers to the field.

Hardcover 4128 pages 2010 ISBN 978-0-470-72327-2
USD \$1295.00/CAD \$1554.00/£760.00/€1149.00

new



Patty's Toxicology

EIGHT-VOLUME + INDEX SET

Eula Bingham, Barbara Cohrssen, Charles H. Powell

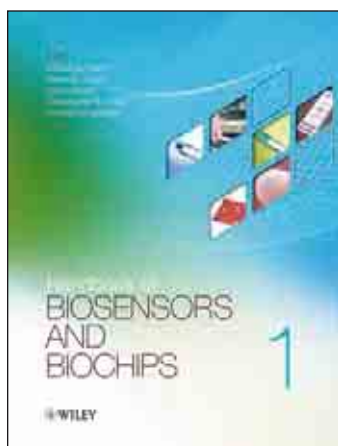
"If you seek knowledge of industrial toxicology . . . turn first to this fifth edition. It is incomparable, without peer."—*Chemical Health & Safety*

The industry's standard reference for more than five decades, *Patty's* now offers professionals separate sets of volumes devoted to either industrial hygiene or toxicology.

Fully revised and updated, this set on toxicology incorporates changes that make information location

and retrieval infinitely easier. For instance, the metals are now covered in 23 separate chapters that constitute Volumes II and III; Volume IV contains four chapters on aromatic hydrocarbons and seven chapters on organic nitrogen compounds; Volume V contains eight chapters on organic halogenated hydrocarbons and four on aliphatic carboxylic acids; Volume VI features three chapters on ketones, two on alcohols, and five on esters; and Volume VII includes four chapters on epoxy compounds, two on glycol ethers, and eight on synthetic polymers. Volume VIII, like Volume I, does not cover compounds but rather other major issues in toxicology assessment or other forms of toxic agents.

Hardcover 9008 pages 2001 ISBN 978-0-471-31943-6 USD \$2915.00/CAD \$3497.99/£1943.00/€2499.00



Handbook of Biosensors and Biochips

TWO-VOLUME SET

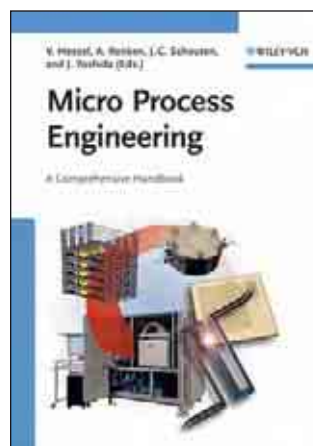
Robert S. Marks, *The Ben Gurion Univ. of the Negev*; Christopher R. Lowe, *Univ. of Cambridge, UK*; David C. Cullen, *Cranfield Univ.*; Howard H. Weetall, *U.S. Environmental Protection Agency*; Isao Karube, *Tokyo Univ. of Technology, Japan*; Editors

With contributions from experts in the field, the

Handbook of Biosensors and Biochips is an essential reference, underpinning many of the applications used in medical diagnostics, environmental control, and pharmaceutical and food industries. It serves as an invaluable addition to the libraries of those in both academia and industry. A one-stop reference for anyone interested in the area of biosensors and biochips, this excellent resource fills the need in this rapidly growing field for an up-to-date reference

Hardcover 1500 pages 2008 ISBN 978-0-470-01905-4 USD \$860.00/CAD \$1031.99/£450.00/€579.00

coming soon



Micro Process Engineering

A Comprehensive Handbook

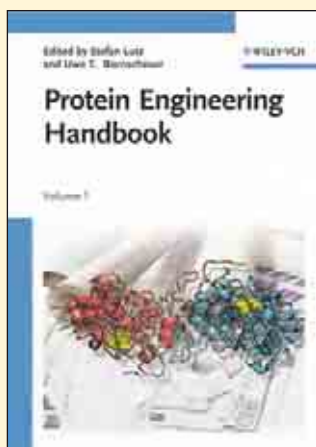
THREE-VOLUME SET

Volker Hessel, *IMM Inst. für Mikrotechnik Mainz*; Albert Renken, *École Polytechnique Fédérale, Switzerland*; Jaap C. Schouten, *Eindhoven Univ. of Technology, The Netherlands*; Jun-ichi Yoshida; Editors

With chemical engineering and chemistry moving towards miniaturized and more complex systems, this three-volume comprehensive handbook is a necessity

for all involved in the process. Each of the three volumes is separated into parts that focus on vital areas in micro process engineering. Areas from bulk and fine chemistry to sensing, analysis, and control are covered with explanations of design and the fluid dynamics governing this interesting topic. Physics, chemistry, and engineering are combined to provide a complete picture of the process. Chemical schemes and photographs lay out the intricate details and finesse required in creating micro reactors. A truly magnificent guide for both industrial as well as academic chemists and chemical and process engineers.

Hardcover 1412 pages 2009 ISBN 978-3-527-31550-5 USD \$650.00/CAD \$780.00/£340.00/€499.00



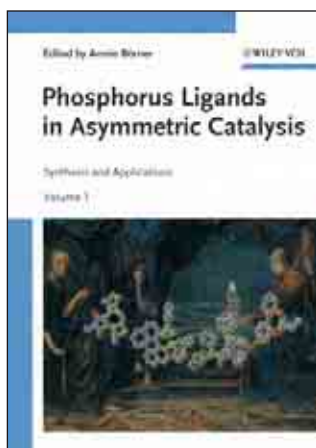
Protein Engineering Handbook

Stefan Lutz, Emory Univ., USA; Uwe Theo Bornscheuer, Greifswald Univ., Germany; Editors

Unparalleled in size and scope, this new major reference integrates academic and industrial knowledge into a single resource, allowing for a unique overview of the entire field. Adopting a systematic and practice-oriented approach, and including a wide range of technical and method-

ological information, this highly accessible handbook is an invaluable 'toolbox' for any bioengineer. In two massive volumes, it covers the full spectrum of current concepts, methods and application areas. A partial listing of topics includes structure and function in proteins, protein engineering and dynamics, metagenomics and genome prospecting, in silico protein design, rational protein engineer, and much, much more.

Hardcover 1015 pages 2009 ISBN 978-3-527-31850-6 USD \$430.00/CAD \$516.00/£300.00/€349.00



Phosphorus Ligands in Asymmetric Catalysis

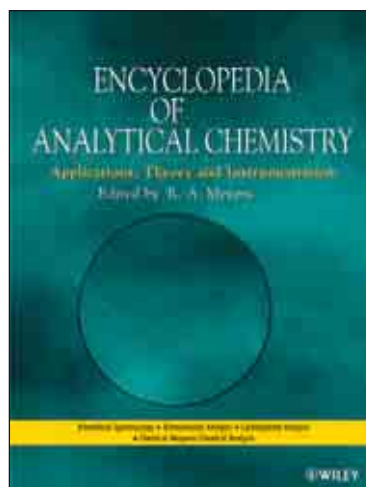
Synthesis and Applications

Armin Börner, Univ. of Rostock, Germany; Editor

Given phosphorus' overwhelming importance in asymmetric synthesis, this book is a definite must-have for all chemists working in synthetic organic and organometallic chemistry. Its an extensive treatment of the most important chemical element for asymmetric catalysis, written

by the who-is-who of top researchers in this field. Clearly divided into substance classes, it explains both general and specific methods for the synthesis of trivalent phosphorous compounds with relevance to asymmetric transformations. An appendix provides a short collection of the most typical phosphorous compounds discovered so far.

Hardcover 1546 pages 2008 ISBN 978-3-527-31746-2 USD \$650.00/CAD \$779.99/£425.00/€499.00



Encyclopedia of Analytical Chemistry

Applications, Theory, and Instrumentation

FIFTEEN-VOLUME SET

Robert A. Meyers, Ramtech, Ltd.; Editor-in-Chief

"It is a truly magnificent set of fifteen volumes. . . . It is extremely well produced with many clear and instructive diagrams, spectra and photographs . . ."—The Alchemist

The highly acclaimed *Encyclopedia of Analytical Chemistry* is the most comprehensive analytical chemistry reference available, covering all aspects from theory and instrumentation through applications and techniques. The chemistry and techniques are described as performed in the laboratory (environmental, clinical, QC, research, university), in the field or by remote sensing. The level of detail is similar to that of a lab protocol and together with the cited references, will support the analysis of complex inorganic, organic and biological structures by academic and industrial researchers. *Encyclopedia of Analytical Chemistry* also enables preparation of procedures, protocols and "cookbooks" by managers and staff of laboratories.

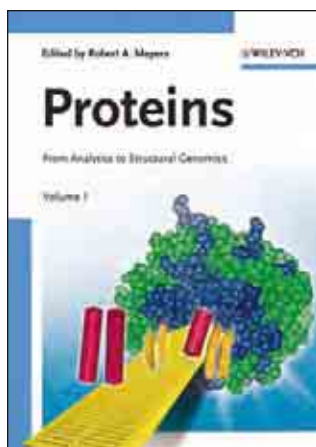
Encyclopedia of Analytical Chemistry comprises over 600 articles, arranged alphabetically by topic, in approximately 14000 pages, in 15 volumes. Features:

- Outstanding authorship and the highest calibre editors
- Excellence of peer-review
- Article Summaries
- Over 6500 illustrations, many in colour
- Extensive cross-referencing to facilitate navigation between articles
- Extensive bibliographies with up-to-date references.

Hardcover 14344 pages 2001 ISBN 978-0-471-97670-7
USD \$11800.00/CAD \$14159.99/£6250.00/€8049.00

ON THE WEB

Get more information online at [JRS to request short URL]



Proteins

From Analytics to Structural Genomics

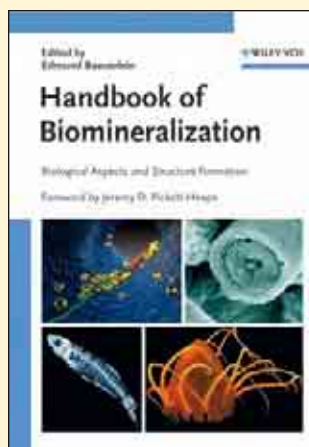
TWO-VOLUME SET

Robert A. Meyers, Ramtech Ltd., USA; Editor

With three Nobel laureates contributing to this invaluable collection of high-quality articles, carefully selected from the highly praised *R.A. Meyer's Encyclopedia*, these two volumes give you valuable insight into a wide range of topics in protein research. Clearly divided into

sections on structure, modeling, expression, analysis and others, the chapters are designed to aid readers of all levels of expertise. The uniform structure of the articles makes them very easy to use, resulting in a ready reference for molecular and cell biologists, biochemists, biophysicists, and biotechnologists, as well as those working in the pharmaceutical and biotechnological industries.

Hardcover 1217 pages 2007 ISBN 978-3-527-31608-3 USD \$505.00/CAD \$605.99/£300.00/€349.00



Handbook of Biomaterialization

THREE-VOLUME SET

Edmund Baeuerlein, Max-Planck-Inst. of Biochemistry, Germany; Peter Behrens, Univ. of Hannover, Germany; Matthias Epple, Univ. of Duisburg-Essen, Germany; Editors

"The editors have made a heroic effort to cover all the areas of this vast subject. I am full of admiration for the enormous amount of work and for the results they have achieved."—*Angewandte Chemie International Edition*

This first comprehensive overview of the modern aspects of biomaterialization represents life and materials science at its best: Bioinspired pathways are the hot topics in many disciplines and this holds especially true for biomaterialization. The volumes are as follows: Volume One: Biological Aspects and Structure Formation; Volume Two: Biomimetic and Bioinspired Chemistry; and Volume Three: Medical and Clinical Aspects.

Hardcover 1349 pages 2007 ISBN 978-3-527-31641-0 USD \$720.00/CAD \$791.99/£425.00/€499.00

There's More to Discover Online!

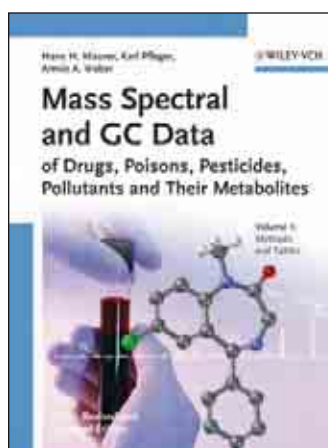
Need to know more about the reference works found in this catalog? Get your answers online. Visit us at www.wiley.com and you'll discover a lot more information about the item in which you are interested. Simply enter the item's ISBN in the window provided and discover:

- Author/Editor Biographies
- In-depth product descriptions
- The ability to purchase individual volumes within a set
- Availability in alternate formats, such as online books or CD-ROMs
- Tables of Content
- Reviews
- Related titles

To speak to an informed live representative about a Wiley reference work, you may also call toll-free 1.800.245.6217.

www.wiley.com

 **WILEY**



Mass Spectral and GC Data of Drugs, Poisons, Pesticides, Pollutants and Their Metabolites

THIRD EDITION, TWO-VOLUMES

Hans H. Maurer; Karl Pfeleger; Armin A. Weber, all of Univ. of Saarland, Homburg/Saar, Germany

The gold standard in clinical mass spectrometry is now completely redesigned for easier access and condensed to accommodate the world's most

comprehensive reference in a two handy volumes. More than 1,000 new spectra of novel designer drugs, pharmaceuticals and their metabolites have been added, bringing the total to 7,500 clinically important substances, listed in order of molecular mass. A unique feature of this collection is that all substances are classified according to their toxicological categories, greatly helping the clinical researcher identify and evaluate unknown samples.

Hardcover 1452 pages 2007 ISBN 978-3-527-31538-3 USD \$1025.00/CAD \$1229.99/£645.00/€759.00



CD-ROM 2007 ISBN 978-3-527-32146-9 USD \$7800.00/CAD \$9359.99/£4355.00/€5700.00

best
seller