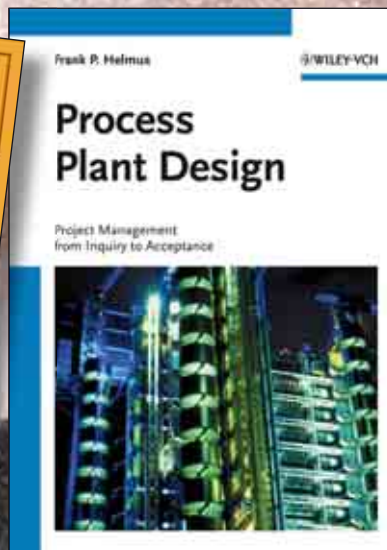
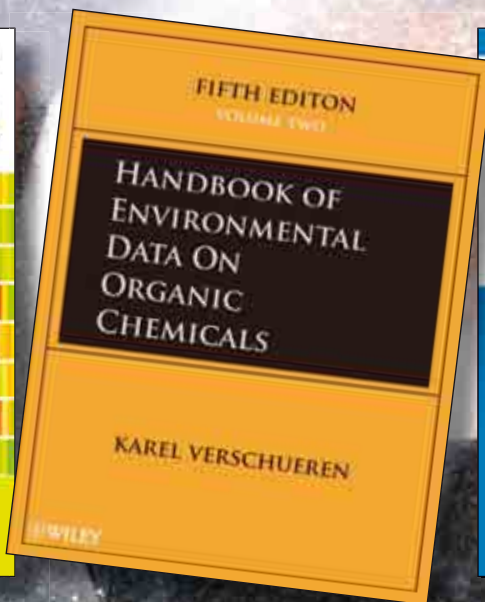
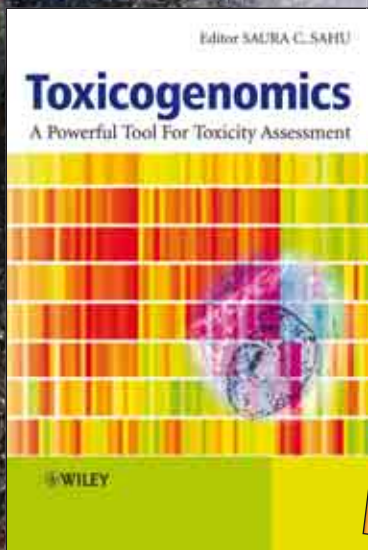


Toxicology & Industrial Safety

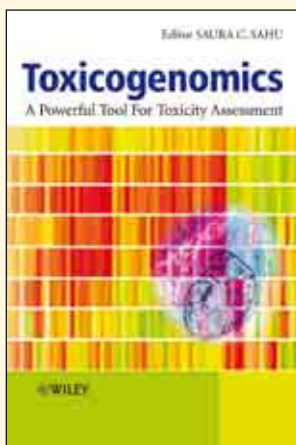


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Toxicogenomics new

A Powerful Tool for Toxicity Assessment

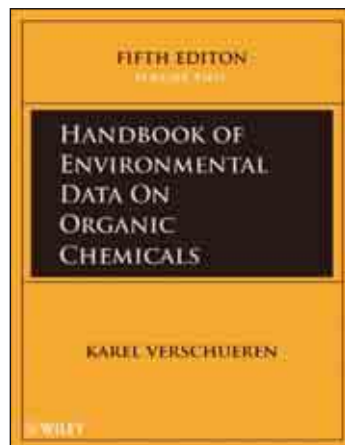
Saura Sahu, US Food and Drug Administration

Toxicogenomics delivers up-to-date state-of-the-art information presented by recognized experts, and so serves as an authoritative source of current knowledge in this field of research. The potential link between toxicology, genetics, and human diseases makes this book very useful to investigators in many and varied disciplines of

science and toxicology. A sampling of the many topics covered includes mechanistic toxicogenomics, sources of variability in toxicogenomic assays, the analysis and interpretation of toxicogenomic data, design issues in toxicogenomics studies, toxicogenomics as a tool to assess immunotoxicity, and the application of toxicogenomics in drug discovery.

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Handbook of Environmental Data on Organic Chemicals new

FOUR-VOLUME SET

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

All 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.



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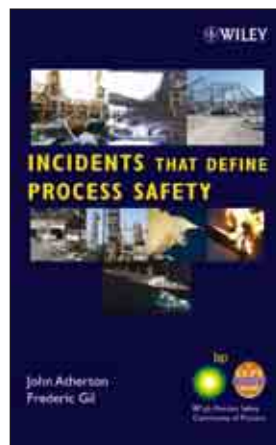
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Incidents That Define Process Safety new

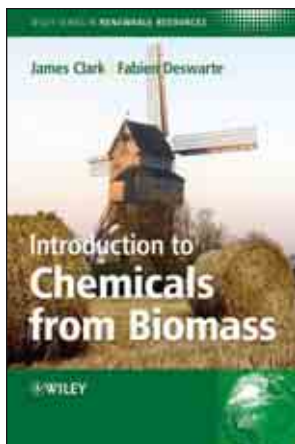
Center for Chemical Process Safety (CCPS)

John Atherton, Frederic Gil

Easy to read but difficult to put down, this book describes some 50 incidents that had a significant impact on the chemical industry and the basic elements of process safety. Each incident is presented in sufficient detail to allow an understanding of root causes of the event with a focus on lessons learned and the impact the incident had on process safety. The Piper Alpha

Oil Platform disaster in 1988 and the Bhopal disaster are among the many events addressed. As such, the book creates an archive of information on chemical industry incidents and shows how the incident led to the development, modification, or reinforcement of safety processes.

Hardcover 336 pages 2008 ISBN 978-0-470-12204-4 USD \$89.95/CAD \$98.99/£52.95/€72.90



Introduction to Chemicals from Biomass

new

Fabien Deswarte, *Clean Technology Centre, UK*; James H. Clark, *York Univ., UK*; Editors

Presenting an overview of the use of bioresources in the 21st century, this book covers resources, chemical composition of biomass, key factors affecting composition, utilization of wastes, extraction technologies, controlled pyrolysis, fermentation, platform molecules, and green chemical technologies for their conversion to

valuable chemicals. The text shows how smaller volume chemicals could become bulk chemicals as a result of a greater exploitation of biomass products, making it an important resource for academic and industrial scientists and researchers.

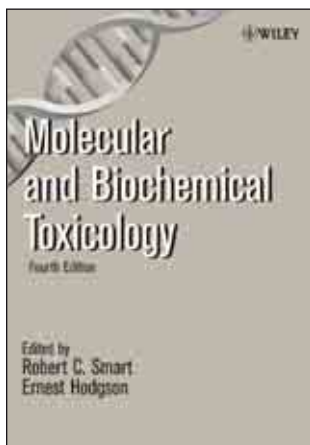
Topics covered include:

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Molecular and Biochemical Toxicology

new

FOURTH EDITION

Robert C. Smart; Ernest Hodgson, *North Carolina State Univ.*; Editors

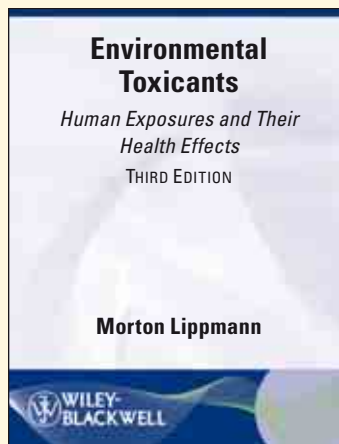
Clear and comprehensive, this book covers a range of dynamic aspects in biochemical and molecular toxicology. Compiled and authored by a diverse group of experts, it guides students and professional toxicologists through a broad range of issues and helps solve problems of basic

toxicology questions, integrating myriad fields from nutrition to genetics to toxicology. This latest edition adds timely and thorough coverage of molecular toxicology, including:

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- Toxicogenomics
- Metabolomics
- Bioinformatics
- Pharmacology (toxic) genetics.

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Environmental Toxicants

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Human Exposures and Their Health Effects
THIRD EDITION

Morton Lippmann

Environmental Toxicants

Human Exposures and Their Health Effects

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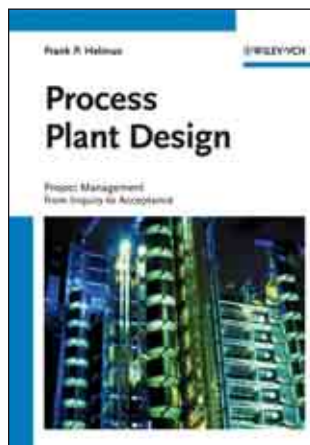
Morton Lippmann, *New York Univ. Medical Center, USA*

Gain the most current information and research available for performing risk assessments on exposed individuals and populations. Giving guidance to public health authorities, primary care physicians, and industrial managers, this third edition:

- Reviews current knowledge on human exposure to selected chemical agents and physical factors in the ambient environment
- Updates and revises the previous edition, in light of current scientific literature and its significance to public health concerns
- Includes new chapters on: airline cabin exposures, arsenic, endocrine disruptors, and nanoparticles.

Hardcover 1208 pages 2009 ISBN 978-0-471-79335-9 USD \$195.00/CAD \$215.00/£115.00/€159.00

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Process Plant Design

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Project Management from Inquiry to Acceptance

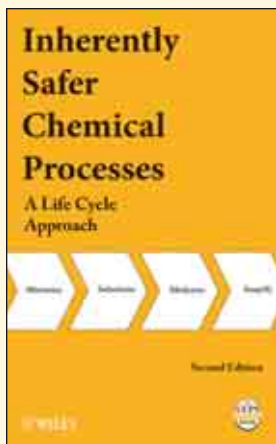
Frank Peter Helmus, *Univ. of Applied Sciences Osnabrück, Germany*

Take a fascinating look into the myriad components of chemical plant commissioning, design, and construction—a jigsaw puzzle of the work of chemical engineers, architects, electrical engineers, process automation engineers, lawyers, and many other profes-

sionals. Here, the author takes the reader through the conceptual phase, to the choice of an engineering firm, through commissioning, equipment and material procurement, construction, and the successful test run. Case studies illustrate potential sources of errors and how professional skills, teamwork, and communication are absolutely essential in keeping such a complex project on track.

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Inherently Safer Chemical Processes

A Life Cycle Approach

SECOND EDITION

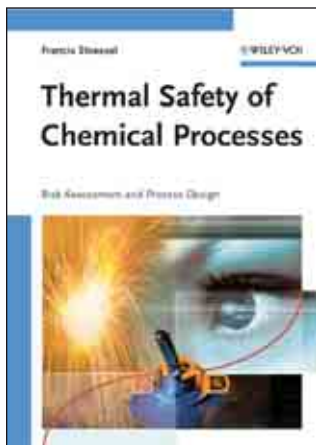
Center for Chemical Process Safety (CCPS)

Presenting a holistic approach to making the development, manufacture, and use of chemicals safer, *Inherently Safer Chemical Processes* discusses strategies for substituting more benign chemicals at the development stage, minimizing risk in the transportation of chemicals, using safer processing methods at the manufacturing stage,

and decommissioning a manufacturing plant.

Since the publication of the original concept book in 1996, there have been many developments on the concept of inherent safety. This new edition provides the latest knowledge so that engineers can derive maximum benefit from inherent safety.

Hardcover 412 pages 2009 ISBN 978-0-471-77892-9 USD \$89.95/CAD \$83.99/£52.95/€72.90



Thermal Safety of Chemical Processes

Risk Assessment and Process Design

Francis Stoessel, *Swiss Inst. for the Promotion of Safety and Security, Switzerland*

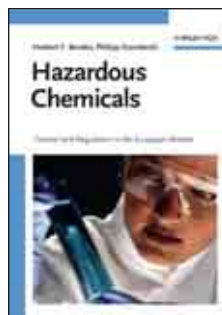
Based on the author's many years of experience in teaching and practicing safety assessment in industry, this book presents proven methods for conducting a systematic assessment of risks due to potential loss of control

over chemical reactions and for the prevention of runaway reactions on an industrial scale. Part one of the book looks at the general aspects of thermal process safety, while part two deals with mastering exothermal reactions. The final section discusses the avoidance of secondary, decomposition reactions, with methods given for their characterization in terms of consequences and triggering conditions.

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Hazardous Chemicals

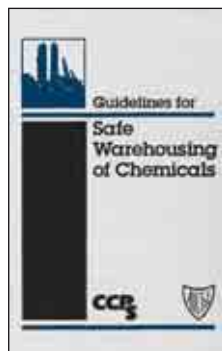
Control and Regulation in the European Market

Herbert F. Bender; Philipp Eisenbarth, *both of BASF AG, Germany*

"For those involved in chemicals regulation in the industrial context this is a uniquely interesting book."—**Chemistry World**

This practice-oriented guide covers the handling and use of hazardous chemicals at the workplace, including labelling and storage, transportation, occupational safety, and proper registration with the European authorities. You also get coverage of the REACH initiative, along with a number of useful case studies. Current European Union legislation and directives are cited throughout the text, making this a valuable reference for companies and institutions both inside and outside of the EU common market.

Hardcover 409 pages 2007 ISBN 978-3-527-31541-3 USD \$145.00/CAD \$159.99/£75.00/€99.00



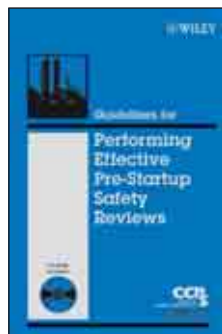
Guidelines for Safe Warehousing of Chemicals

Center for Chemical Process Safety (CCPS)

Written by industry professionals for warehouse operators, designers, and anyone concerned with the safe warehousing of chemicals, this book offers a performance-based approach to health effects, environmental pollution, fire, and explosion, and presents the practical means to minimize the risk of these hazards to employees, the surrounding population, the environment, property, and

business operations. These basic precepts can be used to evaluate the risks in initial or existing designs for warehousing facilities on a manufacturing site, for freestanding offsite buildings, and for strictly chemical or mixed-use storage.

Hardcover 192 pages 2005 ISBN 978-0-8169-0659-8 USD \$90.50/CAD \$99.99/£53.50/€74.90



Guidelines for Performing Effective Pre-Startup Safety Reviews

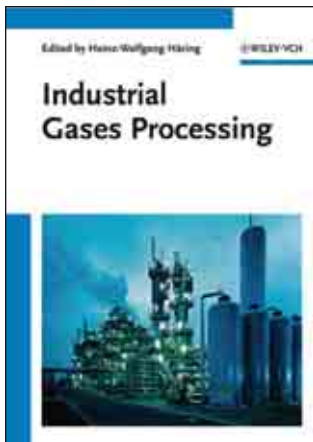
Center for Chemical Process Safety (CCPS)

This book provides guidance to those having responsibility for scheduling and executing a Pre-Startup Safety Review (PSSR) by outlining a protocol and tool for use by project or turnaround teams to effectively and efficiently schedule and execute a PSSR. The book contains:

- How-to checklists for hazard assessment
- Validation of resolutions
- New project turnover, including documentation and training in place
- Turnarounds both routine and emergency
- Batch and continuous processes
- Decommissioning



Hardcover w/CD-ROM 192 pages 2007 ISBN 978-0-470-13403-0
USD \$110.00/CAD \$120.99/£64.95/€89.90



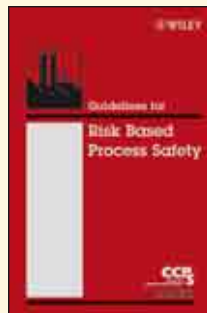
Industrial Gases Processing

Aldo Belloni, *Linde AG, Germany*; Editor

Almost every modern manufacturing process relies on industrial gases, and sales of such gases are expected to rise by around 45 percent over the next five years. Here, experienced and authoritative experts from one of the world's largest producer of industrial gases impart their knowledge on atmospheric, noble and synthesized gases, carbon dioxide, LNG,

acetylene, and other fuel gases, as well as special and medical gases. Modern applications, such as the use of hydrogen in fuel cells, are also included. Practical in nature, this text is rounded out by sections on logistics and applications.

Hardcover 310 pages 2008 ISBN 978-3-527-31685-4 USD \$160.00/CAD \$175.99/£85.00/€109.00



Guidelines for Risk Based Process Safety

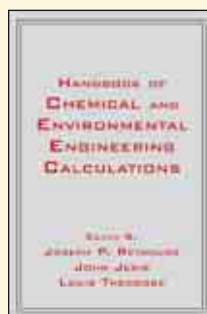
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Center for Chemical Process Safety (CCPS)

Guidelines for Risk Based Process Safety relates guidelines for industries that manufacture, consume, or handle chemicals by focusing on new ways to design, correct, or improve process safety management practices. This new framework for thinking about process safety builds upon the original process safety management ideas published in the

early 90s, integrates industry lessons learned over the intervening years, utilizes applicable total quality principles, and organizes it all in a way that will prove useful to all organizations—even those with relatively lower hazard activities—throughout the lifecycle of a company.

Hardcover 768 pages 2007 ISBN 978-0-470-16569-0 USD \$150.00/CAD \$164.99/£88.50/€125.00



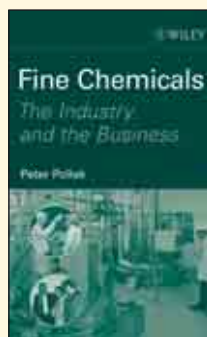
Handbook of Chemical and Environmental Engineering Calculations

Joseph Reynolds, *Manhattan College, USA*;
John S. Jeris; Louis Theodore; Editors

Because of the ubiquitous nature of environmental problems, a variety of scientific disciplines are involved in the development of environmental solutions. *The Handbook of Chemical and Environmental Engineering Calculations* provides approximately 600

real-world, practical solutions to environmental problems that involve chemical engineering, enabling engineers and applied scientists to meet the professional challenges they face day-to-day. Chapter subjects include chemical engineering fundamentals; chemical engineering principles; air pollution control equipment; solid waste; water quality and wastewater treatment; pollution prevention; and health, safety, and accident management.

Paperback 968 pages 2007 ISBN 978-0-470-13902-8 USD \$135.00/CAD \$148.99/£79.50/€109.00



Fine Chemicals

The Industry and the Business

Peter Pollak

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Get an insider's unique perspective on the fine chemicals industry, from both a technological and a commercial viewpoint.

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Risk Communication

A Handbook for Communicating Environmental, Safety, and Health Risks

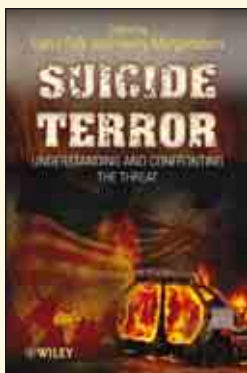
Regina Lundgren, Andrea McMakin

When health, safety, or environmental risks take center stage, communicating risk information can be a daunting challenge. The increased visibility of global terrorism and other catastrophic emergencies underscores the potential for human tragedy—along with economic, social, and political consequences. For over 10 years, *Risk Communication*, a handbook of strategies and

guidance for conveying risk information effectively, has been a valuable guide in areas such as current laws, stakeholder participation methods, and working with the news media. Outstanding features include the melding of sound, scientific research with practical, hands-on advice from risk practitioners with over 20 years experience in the field, who show how to translate theory into action.

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Suicide Terror

Understanding and Confronting the Threat

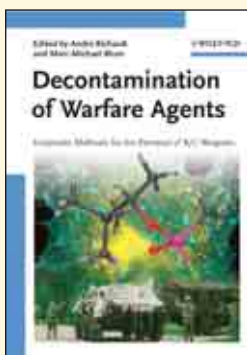
Henry Morgenstern, Ophir Falk

Based on original material, this book takes a hard look at US and Israeli experiences dealing with the phenomenon of suicide terror. The authors draw conclusions about the potential future use of this weapon in the US and provide the policy maker, the first responder, and the student of homeland security with a thorough understanding of suicide terror techniques. The text creates, through reenactments based on eyewitness testimony, the look and feel of actual incidents. Utilizing extensive

case studies, this definitive study of suicide terror shows readers how best to prevent and confront this very dangerous threat.

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Decontamination of Warfare Agents

Enzymatic Methods for the Removal of B/C Weapons

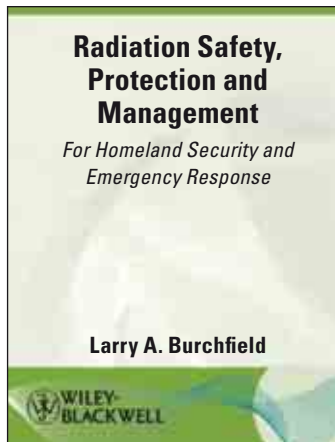
Andre Richardt, Armed Forces Inst. for Protection Technologies, Germany; Marc-Michael Blum, Goethe Univ., Germany; Editors

Based on results previously restricted for military use and inaccessible to the public, this practice-oriented handbook introduces the use of enzymes for fast and efficient decontamination of B/C weapons in various scenarios, including terrorist attacks. It draws on the internationally recognized technological leadership of the German armed forces, whose anti-

B/C technology is among the most advanced worldwide. The text is rounded off with a look at future perspectives.

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Radiation Safety, Protection and Management

For Homeland Security and Emergency Response

Larry A. Burchfield

Radiation Safety, Protection and Management

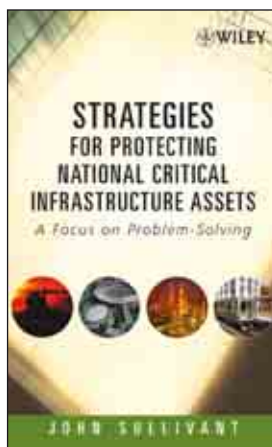
For Homeland Security and Emergency Response

Larry A. Burchfield

Radiation Safety is a solid safety guide to providing radiation protection with an emphasis on homeland security. It explains how first responders and emergency work-

ers should prepare for incidents and gives instructions on how to deal with a radiological event, covering the roles of first responders/emergency workers and the roles of professionals in health care facilities. Since other possible radiological events (such as industrial and medical radiation incidents, transportation accidents, and releases from fixed nuclear sources) require similar responses, this reference covers the appropriate responses for many types of scenarios.

Hardcover 256 pages 2009 ISBN 978-0-471-79333-5 USD \$74.95/CAD \$81.95/£58.95/€82.90



Strategies for Protecting National Critical Infrastructure Assets

A Focus on Problem-Solving

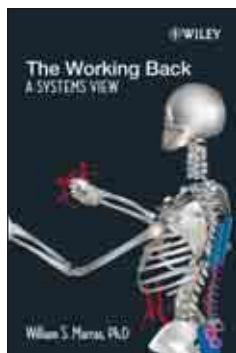
John Sullivan

Drawing on the collective experience of many experts, this definitive reference presents the best methods, techniques, and measurements for conducting objective security assessments of our imperiled national infrastructures. It can help you understand advanced

security assessment concepts in today's high-risk world and identify, measure, and prioritize security risks. A comprehensive, practical guide, this resource details a practical, proven approach that has been successfully used in over 3,000 security assessments in 30 countries. Moreover, it addresses specific infrastructure sectors: water, energy, transportation, chemical industry and hazardous materials, agriculture and food, banking and finance, and telecommunications.

Hardcover 648 pages 2007 ISBN 978-0-471-79926-9 USD \$100.95/CAD \$110.99/£59.50/€82.90

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The Working Back

A Systems View

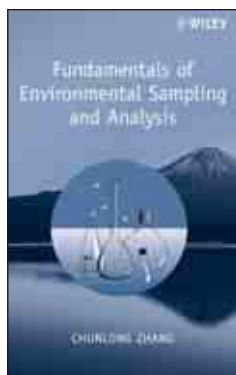
William S. Marras

Lower back pain is responsible for over 40 percent of the compensation costs for work-related injuries. This book dispels myths about back pain and demonstrates how back pain in the workplace is not only caused by heavy lifting—it can also be caused by psychological stress, uncomfortable office furnishings, and genetic factors. Most importantly, it shows how employees can effectively prevent lower back pain in

the workplace, saving employers extraordinary amounts in medical costs and protecting individual workers from the most common on-the-job injury.

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Fundamentals of Environmental Sampling and Analysis

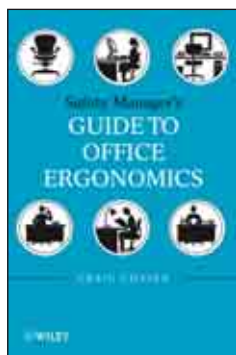
Chunlong Zhang, *Univ. of Houston-Clear Lake, USA*

“... an excellent book that I am sure will be adopted by many faculty members.”
—*Journal of Hazardous Materials*

Affording readers a comprehensive overview on the basics of the subjects for students in environmental science and engineering as well as environmental professionals engaged in sampling and analytical work, this book uses a know-why rather than a know-how approach, detailing

the essentials of sampling, the selection of standard methods, chemical and instrumental principles, and method applications for particular contaminants. It also relays an integrated introduction to the accurate sampling and analysis that is essential to quality environmental data. Each chapter includes examples and exercise problems.

Hardcover 456 pages 2007 ISBN 978-0-471-71097-4 USD \$105.95/CAD \$116.99/£62.50/€87.90



Safety Managers Guide to Office Ergonomics

Craig Chasen

A how-to guide to the problems and solutions of work-related disorders and office ergonomics, *Safety Managers Guide to Office Ergonomics* uses real-life examples that can be easily mimicked to fix any of the common problems readers may face in the workplace. This user-friendly quick reference:

- Categorizes chapters by body part affected
- Includes problems and solutions for common office ergonomics issues

- Offers real-life case studies of office ergonomics
- Provides accessible content for those outside the field of ergonomics, but who are still involved in managing a healthy work environment
- Guides the reader in purchasing office equipment for maximum functionality.

Hardcover 208 pages 2009 ISBN 978-0-470-25760-9 USD \$69.95/CAD \$76.95/£41.50/€57.90



Quick Selection Guide to Chemical Protective Clothing

FIFTH EDITION

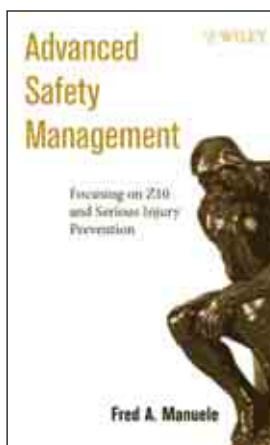
Krister Forsberg, S. Z. Mansdorf

best
seller

This classic work provides the user with a straightforward way to choose a protective material when working with hazardous chemicals. Features include:

- A color-coded grid system indicates which clothing materials offer protection against specific chemicals and which ones don't
- Gives readers the ability to compare the performance of available garment/barrier materials on the market
- Shows how to perform risk assessment of hazards related to skin exposure
- Provides manufacturers' contact information and lists the products they manufacture
- Guides readers in the selection, use, care, and management of protective clothing
- Provides a list of testing and performance standards

Paperback 216 pages 2007 ISBN 978-0-470-14681-1 USD \$58.50/CAD \$63.99/£34.50/€47.90



Advanced Safety Management

Focusing on Z10 and Serious Injury Prevention

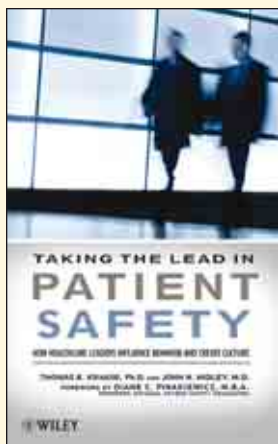
Fred A. Manuele, *Hazards Limited*

Learn how to improve the effectiveness of safety and health management systems by adopting ANSI Z10 provisions and avoiding serious workplace injuries. *Advanced Safety Management* gives you the information and guidance you need to ensure that your organization can implement

the ANSI Z10 standard. The book also helps you realize the beneficial effects that ANSI Z10 can have on productivity, cost efficiency, and quality. Among the key topics addressed are specific provisions in the ANSI standard that are not yet covered by typical safety management systems, such as risk assessment and implementing and performing safety design reviews.

Hardcover 416 pages 2008 ISBN 978-0-470-10953-3 USD \$84.95/CAD \$92.99/£50.50/€69.90

Online Book. See ad on page 5 for ordering information. ISBN 978-0-470-19269-6



Taking the Lead in Patient Safety

How Healthcare Leaders Influence Behavior and Create Culture

Thomas R. Krause, Behavioral Science Technology, Inc.;
John Hidley

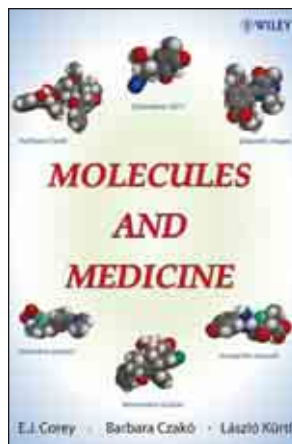
"This succinct and focused book highlights a critically important component of the change process in healthcare—leadership—and outlines how leadership fosters the needed change in organizational culture."

—Peter Angood, MD

Through a wealth of case studies, this guide shows readers how to address the most pressing safety concerns a hospital safety officer may face. Written primarily for hospital safety professionals and managers looking for ways to maximize hospital safety, the book provides a model for establishing a culture of safety in the medical workplace, outlining leadership and organizational plans to minimize danger to both patients and hospital workers alike.

Hardcover 304 pages 2008 ISBN 978-0-470-22539-4 USD \$69.95/CAD \$76.95/£41.50/€57.90

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Molecules and Medicine

E. J. Corey, Barbara Czako, László Kürti, all of Harvard Univ., USA

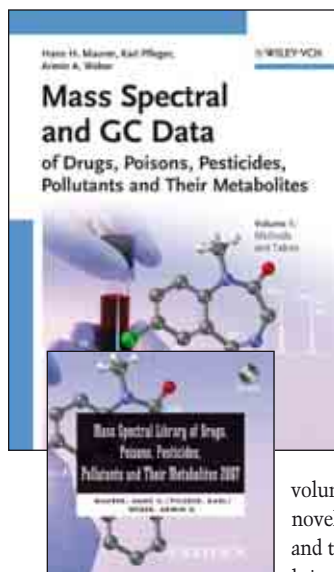
Molecules and Medicine delves into the discovery, application, and mode of action of more than 100 of the most popular drugs now used in modern medicine. For each medication covered, you'll find vital information on the condition it treats, a summary of its industrial development, the year it became available, the biological target of the medicine, and interacting

side effects and related drugs. A sampling of the many medications addressed includes acetylsalicylic acid (aspirin) and Naproxen (Aleve), Tiotropium Bromide (Spiriva) and Loratadine (Claritin), Clopidogrel Bisulfate (Plavix), Sildenafil (Viagra), Ranitidine (Zantac), Acyclovir (Zovirax), plus dozens more.

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

THIRD EDITION
TWO-VOLUME SET

Hans H. Maurer, Karl Pflieger, Armin A. Weber, all of Univ. of Saarland, Germany

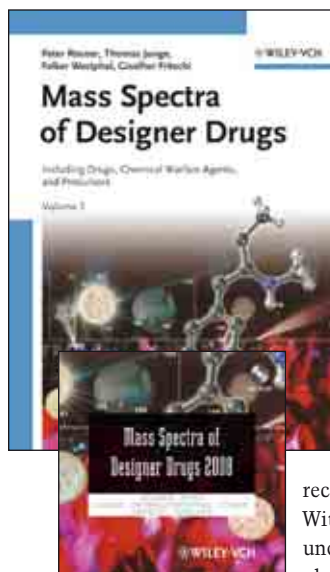
The gold standard in clinical mass spectrometry is now completely redesigned for easier access and condensed to accommodate the world's most comprehensive reference in two handy

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Mass Spectra of Designer Drugs 2008

Peter Rösner

Mass Spectra of Designer Drugs 2008 covers the entire range of designer drugs up to December 2007. Carefully compiled by the mass spectral experts at the Regional Departments of Criminal Investigation in Germany, this database includes 8,300 chemical compounds and 9,658 mass spectra. It now describes chemical warfare agents, added due to the

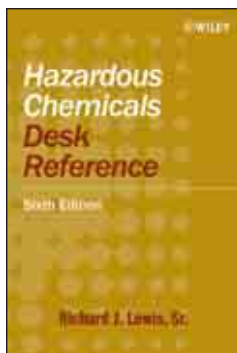
recent interest in homeland security. With data taken from both legal and underground literature, this completely updated reference delivers the

most comprehensive picture of these unique compounds that is currently available.



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Hazardous Chemicals Desk Reference

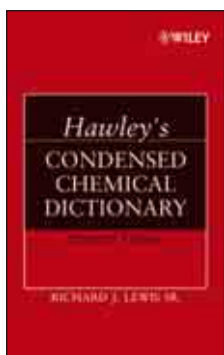
SIXTH EDITION

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

Quickly find safety profiles, synonyms, physical properties, standards, and recommendations from government agencies for approximately 5,000 chemicals deemed both important and potentially hazardous by the international scientific community. The sixth edition of this hallmark refer-

ence has been thoroughly updated to include newly important chemicals that were absent from the previous edition and edited to reflect the profiles of the most common and sought-after hazardous chemicals, while deleting those of least interest to practitioners.

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Hawley's Condensed Chemical Dictionary

FIFTEENTH EDITION

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

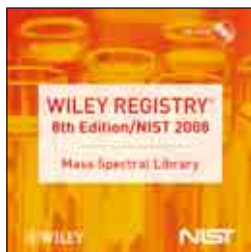
For some 88 years now and through 15 editions, *Hawley's Condensed Chemical Dictionary* has become the resource professionals turn to when they need quick, accurate information on a universe of chemicals and their attendant properties. Hawley's is not a dictionary in the usual sense of an

assemblage of brief definitions, but rather a compendium of technical data and descriptive information covering many thousands of chemicals and chemical phenomena. New to this edition are more than 4,200 new or updated entries; over 700 entries that reflect the growing interest in biochemistry; more than 90 terms relating to nano-technology; and nearly 3,000 new chemicals, including trade-name products.

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Wiley Registry of Mass Spectral Data

EIGHTH EDITION

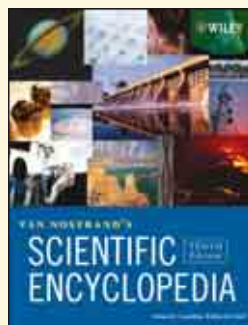
John Wiley & Sons, Inc.

The Wiley Registry combines the two most trusted collections in mass spectrometry to create the most comprehensive and chemically diverse libraries ever. And now, the

complete NIST software package is bundled with every license to provide the tools labs need for applications ranging from compound identification to metabolomics. The vast content of this software includes more than 562,000 spectra, more than 350,000 searchable structures, more than 2,000,000 chemical names and synonyms, 5,308 precursor ions, and more than 43,000 entries.

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Van Nostrand's Scientific Encyclopedia

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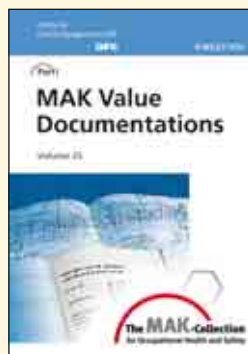
Glenn D. Considine, *CIP, Inc., USA*;
Editor-in-Chief

"... 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

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The MAK-Collection for Occupational Health and Safety

Part I: MAK Value Documentations

VOLUME TWENTYFIVE

Helmut Greim, *Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area*; Editor

These volumes provide detailed documentation for the established MAK values of selected occupational toxicants, including an authoritative review of the available toxicological studies and data. For each substance, the toxic effects, mechanisms and modes of action, toxicogenetics, and metabolism are described.

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REPORT 44

This book and the enclosed CD-ROM contain data for about 1,000 chemical compounds, classifying them as carcinogens, germ cell mutagens, sensitizing substances, embryotoxicants, or bearing a risk to pregnancy. Threshold limit values in air (MAK values) as well as for body

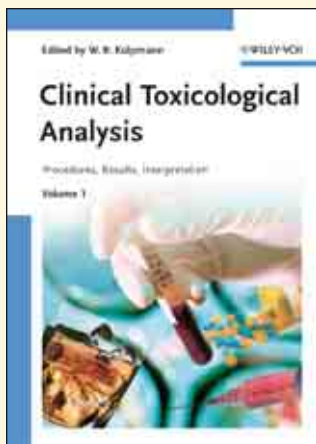
fluids (BAT values) are given; also CAS-numbers, structural formulae, chemical synonyms, and relevant physico-chemical data.

MAK & BAT VALUES



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Clinical Toxicological Analysis

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Procedures, Results, Interpretation

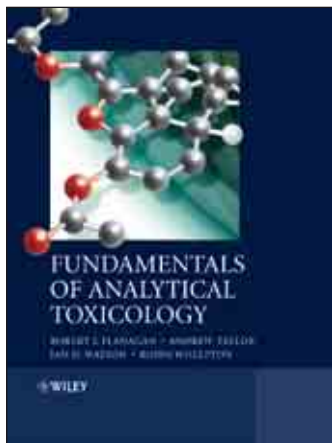
TWO-VOLUME SET

Wolf Rüdiger Külpmann, Medical Univ. of Hannover, Germany; Editor

This two-volume set, the first complete reference on standardized methods for laboratory analysis, is tailor-made for clinical toxicologists, containing all relevant data and protocols for routine and specialized laboratory analysis. Divided into two volumes, the first of which deals with requirements for toxicological analyses, quality assessment, the evaluation of analytical results, forensic aspects, clinical chemistry, and therapeutic drug monitoring. The second volume contains detailed protocols for the analysis of toxicants.

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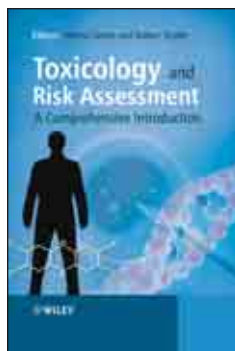
Fundamentals of Analytical Toxicology

Robert J. Flanagan, King's College Hospital NHS Foundation Trust, UK; Andrew A. Taylor, Royal Surrey County Hospital, UK; Ian D. Watson, Aintree Hospitals, UK; Robin Whelpton, Queen Mary, Univ. of London, UK

This book gives chemists practical information on the analysis of drugs

and poisons in biological specimens, particularly clinical and forensic specimens. After providing some background information, the book covers aspects of sample collection, transport, storage and disposal, and sample preparation. General aspects of method implementation/validation and laboratory operation are detailed. Analytical techniques—color tests and spectrophotometry, chromatography and electrophoresis, mass spectrometry, and immunoassay—are covered in depth, as is the analysis of trace elements and toxic metals, plus much, much more. An informative Website accompanies the text.

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Toxicology and Risk Assessment: A Comprehensive Introduction

Helmut Greim, Technical Univ. of Munich; Robert Snyder, Environmental and Occupational Health Sciences Inst. Rutgers, USA; Editors

Develop the skills you need to critically evaluate the available information on a toxic chemical and identify attendant risks. This book, written by two outstanding scientists in the field, describes the basic principles of toxic mechanisms and organ toxicity, providing detailed information on specific mechanisms or chemicals for exemplification. The goal is to

give you information you can use to familiarize yourself with the basic concepts of toxicology so you can assess toxic risks at given exposures.

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Pharma-Ecology

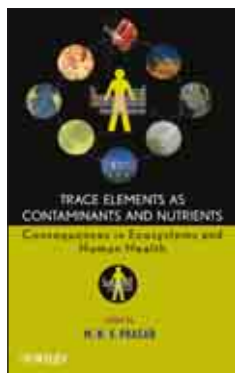
The Occurrence and Fate of Pharmaceuticals and Personal Care Products in the Environment

Patrick K. Jjemba

This book imparts important data on the environmental impacts of pharmaceuticals and personal care products (PPCPs). It highlights the biological effects of pharmaceutical compounds in clinical settings, their modes of action, and approximate quantities consumed. Moreover, the book stresses some of the ecotoxicological aspects of PPCPs and includes a chapter that links clinical pharmacokinetics/pharmacodynamics (PK/PD)

with the kinetics of PPCPs in the environment. Major sections discuss the detection and occurrence of PPCPs in the environment, ecopharmacokinetics and ecopharmacodynamics, the ecotoxicity of PPCPs, and technologies for removing PPCPs.

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Trace Elements as Contaminants and Nutrients

Consequences in Ecosystems and Human Health

M. N. V. Prasad, Univ. of Hyderabad, India

Presenting state-of-the-art findings on trace element contamination in the environment, this comprehensive volume addresses the fundamentals of mineral nutrition in plants and animals (including humans); delves into the geochemistry, bioavailability, uptake, and enzymology of trace elements; and discusses environmental contamination and health implications.

Replete with information about fortified foods and nutrient deficiencies case studies, this is the definitive reference for scientists working in geochemistry hydrology, environmental chemistry and biology, agriculture, and other fields, as well as professionals in regulatory agencies and aid organizations.

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Basic Guide to System Safety

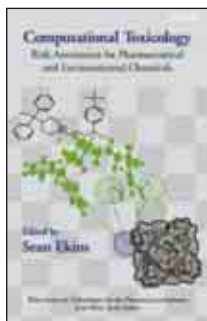
SECOND EDITION

Jeffrey W. Vincoli

Need a quick introduction to system safety principles? Let this book be your guide. Designed to familiarize the reader with the application of scientific and engineering principles for the timely identification of hazards, this work efficiently outlines the essentials of system safety and their impact on day-to-day occupational safety and health. Divided

into two main parts—The System Safety Program and System Safety Analysis: Techniques and Methods—this easy-to-understand book reflects current industry practices with a new chapter on the basic concepts, utility, and function of HAZOP and what-if analyses. In addition, expanded coverage on the use of job safety analysis (JSA) uses practical examples to emphasize its value and understanding.

Hardcover 240 pages 2006 ISBN 978-0-471-72241-0 USD \$74.95/CAD \$81.99/£44.50/€62.90



Computational Toxicology

Risk Assessment for Pharmaceutical and Environmental Chemicals

Sean Ekins, Editor

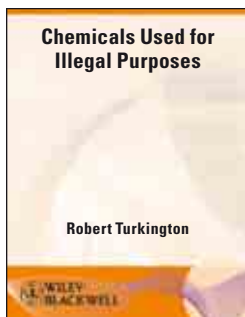
This unique volume explains how the interaction of molecules with toxicologically relevant targets can be predicted using computer-based tools. You'll discover how QSAR methods are applied to enzymes, transporters, nuclear receptors, and ion channels. The book also

clearly shows how in vitro models are used, covers newer technologies, and addresses regulatory aspects. It offers a complete systems perspective regarding risk assessment prediction and discusses experimental and computational approaches in detail. There are also sections on applying computers to toxicology assessment in the pharmaceutical industry and in the environmental arena.

WILEY SERIES ON TECHNOLOGIES FOR THE PHARMACEUTICAL INDUSTRY

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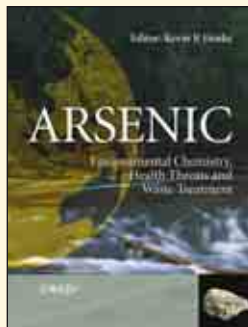


Chemicals Used for Illegal Purposes

Robert Turkington

Chemicals Used for Illegal Purposes helps hazmat professionals and others determine if chemicals at a suspicious site could be used to make illegal substances such as drugs, explosives, pyrotechnics, nerve agents, and other toxins. It profiles dangerous chemicals, covering their appearance, smell, incompatibilities, and identification tests. It also features diagrams to assist responders in identifying illegal laboratories. A superior hands-on reference for crime scene responders, policemen, firemen, bomb squad members, drug enforcement officials, and others who may need to identify potentially hazardous materials and react quickly and appropriately once they are found.

Hardcover 448 pages 2009 ISBN 978-0-470-18780-7 USD \$99.95/CAD \$109.95/£58.95/€82.90



Arsenic

Environmental Chemistry, Health Threats and Waste Treatment

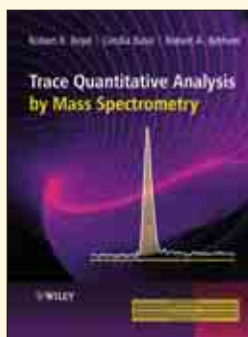
Kevin Henke, David Atwood, Lisa Blue, all of Univ. of Kentucky, USA

Arsenic is a serious environmental and human health threat throughout the globe. Presenting an overview of the chemistry, geology, toxicology, and environmental impacts of arsenic, this book relays information on relatively common arsenic minerals

and their key properties; useful chemical and toxicology data; and information on the cycling of arsenic through the Earth's atmosphere, water, soils, and interior. Written for research scientists, graduate students, and engineers, the book includes discussions on the environmental impacts of the release of arsenic from mining and coal combustion and information on recent environmental catastrophes.

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Trace Quantitative Analysis by Mass Spectrometry

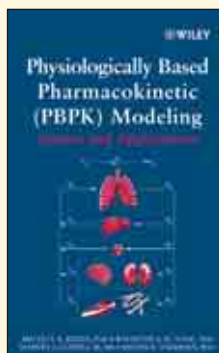
Robert K. Boyd, Inst for National Measurements Standards; Cecilia Basic, Basic Mass Spec; Robert A. Bethem, Alta Analytical Laboratory

This book is devoted to the use of mass spectrometry in quantitative measurements of amounts of target (known) chemical compounds present at trace levels in complex matrices, such as drugs and their metabolites in body fluids, pesticide residues in foodstuffs,

contaminants in drinking water, etc. The basics of scientific instrument use and methodologies are highlighted. Discussions of the fundamentals are reinforced and related to the real-world in chapters dedicated to method development and validation, and real world examples demonstrate their relevance in a wide range of application areas.

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Physiologically Based Pharmacokinetic Modeling

Science and Applications

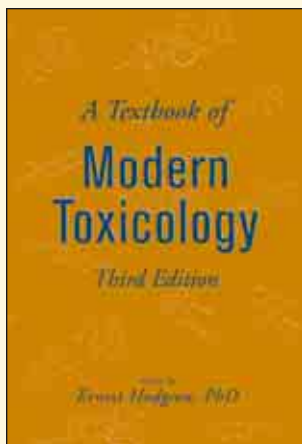
Micaela Reddy, R. S. Yang, Melvin E. Andersen, Harvey J. Clewell III, all of Colorado State Univ., USA

"This is a comprehensive, useful book, a valuable reference for toxicologists, regulators, pharmacologists, pharmacists, and graduate students. . . ."—*American Journal of Therapeutics*

A definitive, single source of information on PBPK modeling. Organized by classes of compounds and modeling purposes, this comprehensive reference gives you an overview of the underlying principles of PBPK model development. In addition, you'll gain insight into PBPK modeling information, including historical development, specific modeling challenges, and more.

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A Textbook of Modern Toxicology

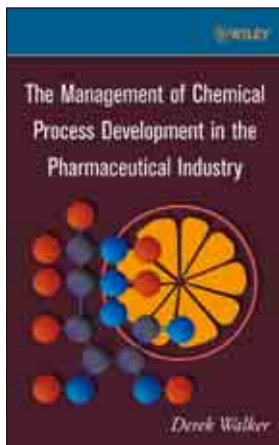
THIRD EDITION

Ernest Hodgson, *North Carolina State Univ., USA;*
Editor

Here's a unique resource that provides a wide-ranging, accessible overview of the discipline. It's distinguished by up-to-date insights into acute toxicity and chemical carcinogenesis, organ toxicity, in vitro and in vivo toxicity testing, ecological risk assessment, and many other

areas of toxicology that help foster a solid comprehension of the field. The new edition reflects the addition of new contributors who offer the latest thinking in their respective areas of specialization and in their examination of emerging topics such as molecular biological aspects of technology. The book also offers suggestions for further reading, a helpful glossary, and a special summary section.

Hardcover 584 pages 2004 ISBN 978-0-471-26508-5 USD \$105.95/CAD \$116.99/£62.50/€87.90



The Management of Chemical Process Development in the Pharmaceutical Industry

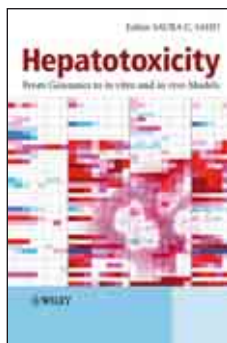
Derek Walker

An outstanding guide for managers in the chemical industries, but equally useful for anyone directly involved in process development, this work delivers concrete advice on creating a vision for process development and managing the team of experts that make it happen. Readers get a concise overview on how to galvanize

chemists, chemical engineers, safety and regulatory professionals, biologists, and others in an industrial environment in order to efficiently implement complex chemical processes. Includes apt case studies and addresses such issues as process safety, environmental engineering, FDA considerations, patents, and individual and team motivation.

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Hepatotoxicity

From Genomics to In Vitro and In Vivo Models

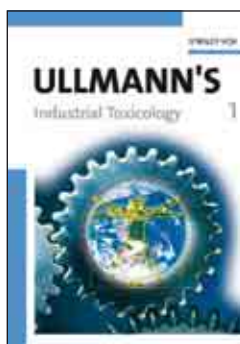
Saura Sahu, Editor

Hepatotoxicity is an authoritative compilation of the most recent advances in this important discipline, presented by international experts and demonstrating the multidisciplinary nature of this science. With this work, you'll gain essential insight into current trends in this area of research and the future directions it may take. A partial sampling of topics covered includes biomarkers of

hepatotoxicity, genomics of hepatotoxicity, gender difference in hepatotoxicity, hepatotoxicity of botanical supplements, and risk assessments of hepatotoxins.

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Ullmann's Industrial Toxicology

TWO-VOLUME SET

Wiley-VCH, Editor

Based on the latest online edition of Ullmann's—and containing articles previously unavailable in print—this concise reference provides practical information on applying the science of toxicology in both the occupational and environmental setting, and explains the fundamentals necessary for understanding the effects of chemical hazards on humans and ecosystems. Alongside explanations of safety regulations and legal aspects, this work covers food additives, toxic agents, as well as medical and therapeutic issues. Copious illustrations, diagrams, and charts enhance understanding.

Hardcover 1191 pages 2005 ISBN 978-3-527-31247-4 USD \$620.00/CAD \$681.99/£325.00/€429.00



Preclinical Development Handbook

Shayne Cox Gad, *IBS, USA;* Editor

This book brings together in one resource an overview of the preclinical process along with a compendium of methods and techniques that need to be considered when developing a new drug. It also details steps in the preclinical process, including prioritizing and optimizing leads, dose formulation, ADME, pharmacokinetics, toxicity, modeling, and regulations. You get an insider's view of common problems and solutions and the limitations of various methods and techniques used in determining the safety and efficacy of a drug at this stage.

PHARMACEUTICAL DEVELOPMENT SERIES

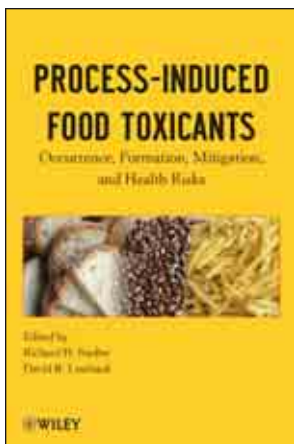
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ALSO available Preclinical Development Handbook: Toxicology
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Process-Induced Food Toxicants

Occurrence, Formation, Mitigation, and Health Risks

Richard H. Stadler, David R. Lineback, Editors

Process-Induced Food Toxicants combines the analytical, health, and risk management issues relating to all of the currently known processing-induced toxins that may be present in common foods. It considers the different processing methods used in the manufacture of foods, including thermal treatment, drying,

fermentation, preservation, fat processing, and high hydrostatic pressure processing, and the potential contaminants for each method. The book discusses the analysis, formation, mitigation, health risks, and risk management of each hazardous compound. Also discussed are new technologies and the impact of processing on nutrients and allergens.

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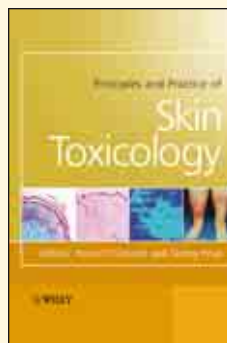
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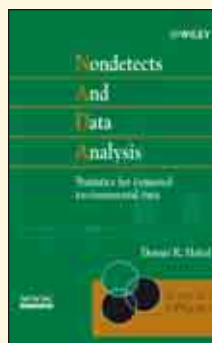
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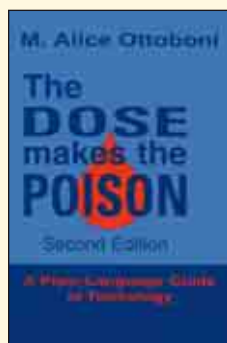
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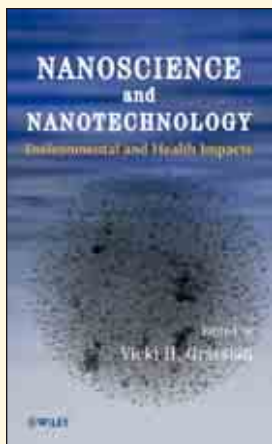
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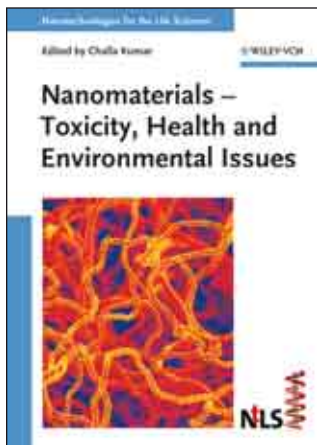
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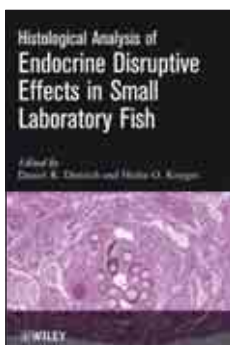
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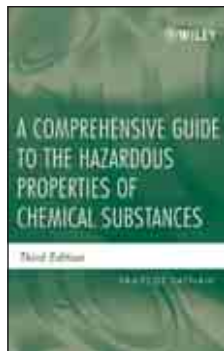
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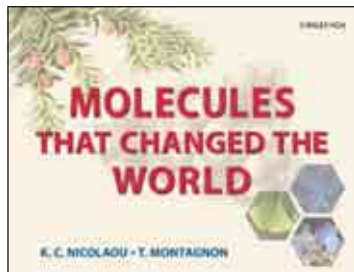
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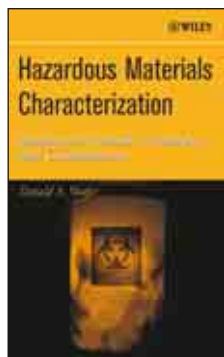
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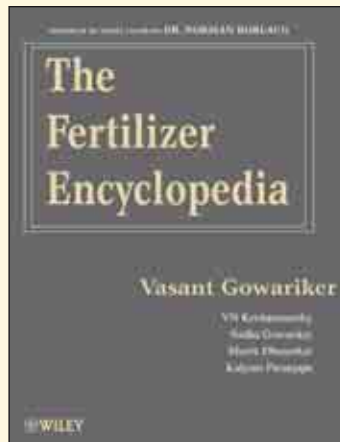
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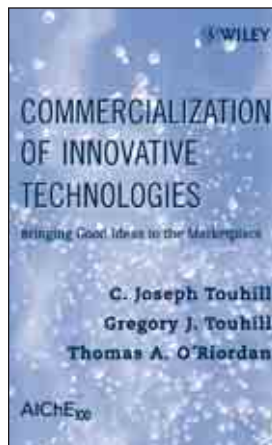
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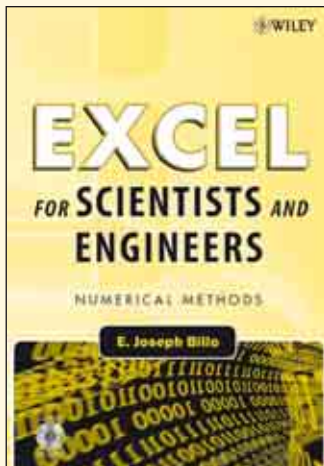
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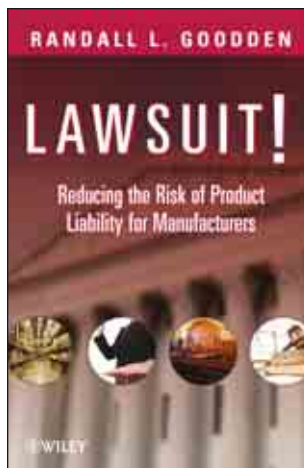
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