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Bretherick's Handbook of Reactive Chemical Hazards - L. Bretherick 2016-10-27

Bretherick's Handbook of Reactive Chemical Hazards, Fourth Edition, has been prepared and revised to give access to a wide and up-to-date selection of documented information to research students, practicing chemists, safety officers, and others concerned with the safe handling and use of reactive chemicals. This will allow ready assessment of the likely potential for reaction hazards which may be associated with an existing or proposed chemical compound or reaction system. A secondary, longer-term purpose is to present the information in a way which will, as far as possible, bring out the causes of, and interrelationships between, apparently disconnected facts and incidents. This handbook includes all information which had become available to the author by April 1989 on the reactivity hazards of individual elements or compounds, either alone or in combination. It begins with an introductory chapter that provides an overview of the complex subject of reactive chemical hazards, drawing attention to the underlying principles and to some practical aspects of minimizing such hazards. This is followed by two sections: Section 1 provides detailed information on the hazardous properties of individual chemicals, either alone or in combination with other compounds; the entries in Section 2 are of two distinct types. The first type of entry gives general information on the hazardous behavior of some recognizably discrete classes or groups of the 4,600 or so individual compounds for which details are given in Section 1. The second type of entry concerns reactive hazard topics, techniques, or incidents which have a common theme or pattern of behavior involving compounds of several different groups, so that no common structural feature exists for the compounds involved.

Liquid Phase Sintering - R.M. German 2013-12-14

In the past few years there has been rapid growth in the activities involving particulate materials because of recognized advantages in manufacturing. This growth is attributed to several factors; i) an increased concern over energy utilization, ii) a desire to better control microstructure in engineering materials, iii) the need for improved material economy, iv) societal and economic pressures for higher productivity and quality, v) requirements for unique property combinations for high performance applications, and vi) a desire for net shape forming. Accordingly, liquid phase sintering has received increased attention as part of the growth in particulate materials processing. As a consequence, the commercial applications for liquid phase sintering are expanding rapidly. This active and expanding interest is not well served by available texts. For this reason I felt it was appropriate to write this book on liquid phase sintering. The technology of liquid phase sintering IS

quite old and has been in use in the ceramics industry for many centuries. However, the general perception among materials and manufacturing engineers is that liquid phase sintering is still a novel technique. I believe the diverse technological applications outlined in this book will dispel such impressions. Liquid phase sintering has great value in fabricating several unique materials to near net shapes and will continue to expand in applications as the fundamental attributes are better appreciated. I am personally involved with several uses for liquid phase sintering.

Gardens Schweiz / Suisse / Switzerland - Hester Macdonald 2019-03-08

Featuring 52 gardens open to the public across Switzerland, *Gardens Schweiz / Suisse / Switzerland* is the perfect book for avid gardeners, keen botanists, or simply anyone who loves the outdoors. Each garden entry includes a description in three languages, as well as visitor information, and the book features more than 100 lush colour photos.

The Cat Who Cried for Help - Nicholas Dodman 1999-02-02

In this groundbreaking book, Dr. Nicholas Dodman does for feline psychology what he did for canines in his widely acclaimed *The Dog Who Loved Too Much*. Here he reveals the fascinating, and often frustrating, mind of one of our most popular--and certainly most independent--animal companions, and shows how we can coexist peacefully with even the stubbornest of cats. What do you do about a cat determined to tear your sofa to shreds? Or one who gorges himself on your best running shoes . . . or attacks anyone who dares to open the refrigerator door? Drawing on remarkable real-life stories from his practice at the prestigious Tufts University School of Veterinary Medicine, Dr. Dodman shares the unique, compassionate, dramatically successful treatment programs that have given problem cats a new lease on life . . . and their perplexed owners long-term solutions to even the most intractable disorders. As any cat owner knows, changing a cat's behavior can seem like an impossible task. But contrary to popular belief, cats can be trained and cured of irritating habits and undesirable behaviors. *The Cat Who Cried for Help* shows how minor adjustments in diet, exercise regimen, and environment can effect dramatic breakthroughs in resolving almost any feline problem. From cat panic attacks to eating disorders, from litterbox aversion to depression and a wide range of feline phobias, Dr. Dodman has successfully treated and resolved these and many other heretofore untreatable behaviors. Inside, you'll meet Ashley, the boss-cat who literally bites the hand that feeds him; Jonathan, the binge-eater; Rubles, the Abyssinian Jekyll and Hyde, pussycat one minute, man-eating tiger the next; and Thomas, the cat who cried for help--a little too loudly. Dr. Dodman's techniques are based on the most up-to-date research in pharmacology and feline behaviorism. Yet the primary objective of his treatments is to respect and protect the qualities of independence and dignity fundamental to a cat's nature. Including descriptions of symptoms, treatment options, and tips on prevention, *The Cat Who Cried for Help* provides everything you need to know to ensure both you and your feline friend a long, happy, and healthy relationship. If you've ever wanted to better understand the nature of this mysterious, enigmatic, and fascinating creature, Dr. Dodman's book provides a penetrating look into the intriguing and intricate world of the cat in your life.

Redheaded Peckerwood - Christian Patterson 2011

Redheaded Peckerwood is Christian Patterson's second book; a body of photographs, documents and objects that utilizes the underlying narrative of a true crime story as a spine.

Steviol Glycosides - Ursula Wölwer-Rieck 2018-10-31

The popularity of the plant *Stevia* (*Stevia rebaudiana*) has risen due to increasing use and interest in its sweet

constituents called steviol glycosides. In recent years, these have been approved all over the world as food additives in the category of sweetener, hence they have received more attention and their use in food formulations has increased significantly. New techniques in growing stevia have resulted in new varieties with interesting steviol glycoside profiles. Also, new techniques to analyse the content of sweeteners in different matrices and the detection of new steviol glycosides with very pleasant sensory profiles has followed. The aim of this book is to present novel uses and manufacturing developments as well as to gather together up-to-date information across the whole developing area of steviol glycosides research.

Mesolore - Liza Bakewell 2001

iMesolore Exploring Mesoamerican Culturebr The Interactive Teaching Toolip iMesolore Exploring Mesoamerican Culturei offers on CD-ROM an interactive, cross-disciplinary introduction to current North American and European scholarship on Mesoamerica and Native American issues. From lectures by leading experts to debates and tutorials by scholars in the field to exquisitely rendered primary and secondary sources, iMesolorei creates an interdisciplinary, multilingual environment for teaching, class discussion, and original research.p iMesolore'si academic benefits includep -The introduction of students to primary-source researchp - The promotion of a cross-discipline engagementtp -A survey of a multinational selection of contemporary scholarshipp -The presentation of a multilingual environmentp -The connection to broad issuesp iMesolore'si dynamic content can enliven your teaching and your students' learning of history, anthropology, archeology, Spanish language and culture, and art history.p a hrefhttp://www.mesolore.comimage srcimages/buttons/mesolore.jpg/a.

Extraskkeletal Effects of Vitamin D - Emilia Pauline Liao 2018-04-23

While the skeletal effects of vitamin D are well-documented, the role and importance of vitamin D outside of bone health has not been well-established. Vitamin D receptors are located in nearly every tissue of the body, and low levels of vitamin D are associated with a range of various diseases. This book provides an in-depth examination of these extraskkeletal effects of vitamin D and the associations between vitamin D deficiency and various disease states. Beginning with a review of the biochemistry and physiology of vitamin D, subsequent chapters investigate its relationship to autoimmune and infectious diseases, various forms of cancer, endocrine issues such as diabetes, obesity and reproductive function, cardiovascular disease and muscle weakness. Concluding chapters discuss the role of vitamin D in neurological disorders, including Alzheimer's Disease, and cognitive function. Focusing on extraskkeletal effects only across a range of conditions, Extraskkeletal Effects of Vitamin D will be an important resource for clinical endocrinologists and primary care physicians.

Artistic Research - Annette W. Balkema 2004

Advanced art education is in the process of developing research programs throughout Europe. What does the term research actually mean in the practice of art? What is the relation to the scientific methods of alpha, beta or gamma sciences, directed toward knowledge production and the development of a certain scientific domaine? What will be the influence of scientific research on the art forms?

Guide to Nutritional Supplements - 2009-09-02

The rapidly expanding world of nutrition, functional foods and nutraceuticals, is increasingly complex. This Guide to Nutritional Supplements provides a concise and complete reference to the most common nutritionally significant elements. Including dietary guidelines, intake measurements and other contextual information, this Guide is the ideal reference for nutritionsts and dieticians facing an increasing public awareness of supplements

and who many be augmenting their diets with OTC supplements. Focused on the nutritional values, impacts and interactions of supplements Provides a science-based approach to determining the appropriate selection and application of supplements for improved diet and nutrition

Fortran Programs for Chemical Process Design, Analysis, and Simulation - A. Kayode Coker 1995-01-25

Numerical Computation. Physical Property Data. Fluid Flow. Equipment Sizing. Instrument Sizing. Compressors and Pump Hydraulics. Mass Transfer. Heat Transfer. Engineering Economics. Imperial/SI Units Conversion Table. Appendix A: Tables. Appendix B: Source Code Printouts.

Lithium-ion Batteries - 2019

"This is the first machine-generated scientific book in chemistry published by Springer Nature. Serving as an innovative prototype defining the current status of the technology, it also provides an overview about the latest trends of lithium-ion batteries research. This book explores future ways of informing researchers and professionals. State-of-the-art computer algorithms were applied to: select relevant sources from Springer Nature publications, arrange these in a topical order, and provide succinct summaries of these articles. The result is a cross-corpora auto-summarization of current texts, organized by means of a similarity-based clustering routine in coherent chapters and sections. This book summarizes more than 150 research articles published from 2016 to 2018 and provides an informative and concise overview of recent research into anode and cathode materials as well as further aspects such as separators, polymer electrolytes, thermal behavior and modelling. With this prototype, Springer Nature has begun an innovative journey to explore the field of machine-generated content and to find answers to the manifold questions on this fascinating topic. Therefore it was intentionally decided not to manually polish or copy-edit any of the texts so as to highlight the current status and remaining boundaries of machine-generated content. Our goal is to initiate a broad discussion, together with the research community and domain experts, about the future opportunities, challenges and limitations of this technology."--Publisher's website.

Robust Process Control - Manfred Morari 1989

A state-of-the-art study of computerized control of chemical processes used in industry, this book is for chemical engineering and industrial chemistry students involved in learning the micro-macro design of chemical process systems.

Liquid Crystals - Pankaj Kumar Choudhury 2018-02-28

Liquid crystals exhibit amazingly interesting properties that make them indispensable for several technological applications. The book *Liquid Crystals - Recent Advancements in Fundamental and Device Technologies* is aimed to focus on various aspects of research and development that liquid crystal mediums have come across in recent years. This would be ranging from the physical and chemical properties to the important applications that the liquid crystals have in our everyday life. It is expected that the book will make the expert researchers to be abreast of recent research advancements, whereas the novice researchers will benefit from both the conceptual understanding and the recent developments in the area. Multitudes of research themes and directions pivoted to liquid crystals remain the essence, which the readers would get the glimpse of and move ahead for further investigations.

Curves and Surfaces for CAGD - Gerald E. Farin 2002

Preface -- Chapter 1 P. Bézier: How a Simple System Was Born -- Chapter 2 Introductory Material -- Chapter 3 Linear Interpolation -- Chapter 4 The de Casteljau Algorithm -- Chapter 5 The Bernstein Form of a Bézier

Curve -- Chapter 6 Bézier Curve Topics -- Chapter 7 Polynomial Curve Constructions -- Chapter 8 B-Spline Curves -- Chapter 9 Constructing Spline Curves -- Chapter 10 W. Boehm: Differential Geometry I -- Chapter 11 Geometric Continuity -- Chapter 12 Conic Sections -- Chapter 13 Rational Bézier and B-Spline Curves -- Chapter 14 Tensor Product Patches -- Chapter 15 Constructing Polynomial Patches -- Chapter 16 Composite Surfaces -- Chapter 17 Bézier Triangles -- Chapter 18 Practical Aspects of Bézier Triangles -- Chapter 19 W. Boehm: Differential Geometry II -- Chapter 20 Geometric Continuity for Surfaces -- Chapter 21 Surfaces with Arbitrary Topology -- Chapter 22 Coons Patches -- Chapter 23 Shape -- Chapter 24 Evaluation of Some Methods -- Appendix A Quick Reference of Curve ...

Droplets and Sprays - Saptarshi Basu 2017-12-11

This book focuses on droplets and sprays relevant to combustion and propulsion applications. The book includes fundamental studies on the heating, evaporation and combustion of individual droplets and basic mechanisms of spray formation. The contents also extend to the latest analytical, numerical and experimental techniques for investigating the behavior of sprays in devices like combustion engines and gas turbines. In addition, the book explores several emerging areas like interactions between sprays and flames and the dynamic characteristics of spray combustion systems on the fundamental side, as well as the development of novel fuel injectors for specific devices on the application side. Given its breadth of coverage, the book will benefit researchers and professionals alike.

Solid State Ionics for Batteries - M. Tatsumisago 2006-04-19

In this book, recent progress in batteries is firstly reviewed by researchers in three leading Japanese battery companies, SONY, Matsushita and Sanyo, and then the future problems in battery development are stated. Then, recent development of solid state ionics for batteries, including lithium ion battery, metal-hydride battery, and fuel cells, are reviewed. A battery comprises essentially three components: positive electrode, negative electrode, and electrolyte. Each component is discussed for the construction of all-solid-state Batteries. Theoretical understanding of properties of battery materials by using molecular orbital calculations is also introduced.

Hazardous Chemicals Associated with Plastics in the Marine Environment - Hideshige Takada 2018-10-13

This volume consists of 15 chapters and focuses on hazardous chemicals, how they are associated with plastics, and their environmental risks. It includes background information on plastics and additives chemistry, and their observed or potential effects on living organisms as well as the oceanographic aspects of marine debris dispersion. The respective chapters provide insights into the sorption/desorption of chemicals in and out of plastics, the mechanisms and kinetics, but also the scale of the concentrations of chemicals found in marine debris, particularly in microplastics. The occurrence of the various chemicals is analyzed, as well as the distribution profiles of the chemicals in microplastics throughout the world's oceans. The implications of the fact that plastics carry within them several chemicals are discussed in detail. In closing, new research topics that warrant further attention are identified. The book will appeal to all scientists who are already working or interested in starting to work on the topic of marine debris, as well as policymakers, NGOs and the broader informed public.

Freshwater Microplastics - Martin Wagner 2020-10-08

This volume focuses on microscopic plastic debris, also referred to as microplastics, which have been detected in aquatic environments around the globe and have accordingly raised serious concerns. The book explores

whether microplastics represent emerging contaminants in freshwater systems, an area that remains underrepresented to date. Given the complexity of the issue, the book covers the current state-of-research on microplastics in rivers and lakes, including analytical aspects, environmental concentrations and sources, modelling approaches, interactions with biota, and ecological implications. To provide a broader perspective, the book also discusses lessons learned from nanomaterials and the implications of plastic debris for regulation, politics, economy, and society. In a research field that is rapidly evolving, it offers a solid overview for environmental chemists, engineers, and toxicologists, as well as water managers and policy-makers. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

Improving the Quality of Long-Term Care - Institute of Medicine 2001-02-27

Among the issues confronting America is long-term care for frail, older persons and others with chronic conditions and functional limitations that limit their ability to care for themselves. *Improving the Quality of Long-Term Care* takes a comprehensive look at the quality of care and quality of life in long-term care, including nursing homes, home health agencies, residential care facilities, family members and a variety of others. This book describes the current state of long-term care, identifying problem areas and offering recommendations for federal and state policymakers. Who uses long-term care? How have the characteristics of this population changed over time? What paths do people follow in long term care? The committee provides the latest information on these and other key questions. This book explores strengths and limitations of available data and research literature especially for settings other than nursing homes, on methods to measure, oversee, and improve the quality of long-term care. The committee makes recommendations on setting and enforcing standards of care, strengthening the caregiving workforce, reimbursement issues, and expanding the knowledge base to guide organizational and individual caregivers in improving the quality of care.

Biolubricants - Jan C.J. Bart 2012-12-18

Lubricants are essential in engineering, however more sustainable formulations are needed to avoid adverse effects on the ecosystem. Bio-based lubricant formulations present a promising solution. *Biolubricants: Science and technology* is a comprehensive, interdisciplinary and timely review of this important subject. Initial chapters address the principles of lubrication, before systematically reviewing fossil and bio-based feedstock resources for biodegradable lubricants. Further chapters describe catalytic, (bio) chemical functionalisation processes for transformation of feedstocks into commercial products, product development, relevant legislation, life cycle assessment, major product groups and specific performance criteria in all major applications. Final chapters consider markets for biolubricants, issues to consider when selecting and using a lubricant, lubricant disposal and future trends. With its distinguished authors, *Biolubricants: Science and technology* is a comprehensive reference for an industrial audience of oil formulators and lubrication engineers, as well as researchers and academics with an interest in the subject. It provides an essential overview of scientific and technological developments enabling the cost-effective improvement of biolubricants, something that is crucial for the green future of the lubricant industry. A comprehensive, interdisciplinary and timely review of bio-based lubricant formulations Addresses the principles of lubrication Reviews fossil and bio-based feedstock resources for biodegradable lubricants

E-Commerce - Kamlesh K. Bajaj 2005-09

E-Commerce: The Cutting Edge of Business presents the technology and processes behind e-commerce and e-

governance. It also underscores the importance of security of transactions in the electronic environment. With such an extensive coverage, the book will be useful to people in trade and commerce and to businesses which are trying to expand using Internet and intranet commerce. Students and teachers of e-commerce will find that the technology and processes that make e-commerce click have been addressed in detail. The book will also be of enormous value to government officials, financial institutions, public sector and the private industry keen to learn about The Cutting Edge of Business

Coastal Wetlands Restoration - Hiromi Yamashita (Professor) 2021-08

"This book examines a wide range of innovative approaches for coastal wetlands restoration and explains how we should use both academic research and practitioners' findings to influence learning, practice, policy, and social change. For conservationists, tidal flats and coastal wetlands are regarded as among the most important areas to conserve for the health of the entire oceanic environment. As the number of restoration projects all over the world increases, this book provides a unique assessment of coastal wetland restorations by examining existing community perceptions and by drawing on the knowledge and expertise of both academics and practitioners. Based on a four-year sociological study across three different cultural settings - England, Japan and Malaysia - the book investigates how citizens perceive the existing environment; how they discuss the risks and benefits of restoration projects; how perceptions change over time; and how governmental and non-governmental organisations work with the various community perceptions on the ground. By comparing and contrasting the results from these three countries, the book offers guidance for future conservation and restoration activities, with a specific view to working with local citizens to avoid conflict and obtain long-term investment. This book will be of great interest to students and scholars of coastal restoration, wetland conservation and citizen science, as well as environmental sociology and environmental management more broadly. It will also be of use to practitioners and policymakers involved in environmental restoration projects"-

The Great Highway: a Story of the Worlds Struggles - Stephen Watson Fullom 1854

Sulfate Minerals - Charles N. Alpers 2018-12-17

Volume 40 of *Reviews in Mineralogy and Geochemistry* compiles and synthesizes current information on sulfate minerals from a variety of perspectives, including crystallography, geochemical properties, geological environments of formation, thermodynamic stability relations, kinetics of formation and dissolution, and environmental aspects. The first two chapters cover crystallography (Chapter 1) and spectroscopy (Chapter 2). Environments with alkali and alkaline earth sulfates are described in the next three chapters, on evaporites (Chapter 3), barite-celestine deposits (Chapter 4), and the kinetics of precipitation and dissolution of gypsum, barite, and celestine (Chapter 5). Acidic environments are the theme for the next four chapters, which cover soluble metal salts from sulfide oxidation (Chapter 6), iron and aluminum hydroxysulfates (Chapter 7), jarosites in hydrometallurgy (Chapter 8), and alunite-jarosite crystallography, thermodynamics, and geochronology (Chapter 9). The next two chapters discuss thermodynamic modeling of sulfate systems from the perspectives of predicting sulfate-mineral solubilities in waters covering a wide range in composition and concentration (Chapter 10) and predicting interactions between sulfate solid solutions and aqueous solutions (Chapter 11). The concluding chapter on stable-isotope systematics (Chapter 12) discusses the utility of sulfate minerals in understanding the geological and geochemical processes in both high- and low-temperature environments, and

in unraveling the past evolution of natural systems through paleoclimate studies. The review chapters in this volume were the basis for a short course on sulfate minerals sponsored by the Mineralogical Society of America (MSA) November 11-12, 2000 in Tahoe City, California, prior to the Annual Meeting of MSA, the Geological Society of America, and other associated societies in nearby Reno, Nevada. The conveners of the course (and editors of this volume of *Reviews in Mineralogy and Geochemistry*), Alpers, John Jambor, and Kirk Nordstrom, also organized related topical sessions at the GSA meeting on sulfate minerals in both hydrothermal and low-temperature environments.

Enzymes in Food Technology - Robert J. Whitehurst 2002

The second edition of this successful book highlights the widespread use of enzymes in food processing improvement and innovation, explaining how they bring advantages. The properties of different enzymes are linked to the physical and biochemical events that they influence in food materials and products, while these in turn are related to the key organoleptic, sensory and shelf life qualities of foods. Fully updated to reflect advances made in the field over recent years, the book also contains five new chapters.

The Nominal Roll of Vietnam Veterans - 1997

Bell Telephone Quarterly - 1982

Vietnam - 2006

Vietnam: Or War - Our Peace brings together 44 stories from the Vietnam veteran's community.

The ABC's of Health - Peter Alderman 2015

Alphabetically explains the benefits of healthy living and eating, including why certain foods are good to eat.

Degradation Rate of Bioresorbable Materials - F J Buchanan 2008-09-26

Bioresorbable materials are extensively used for a wide range of biomedical applications from drug delivery to fracture fixation, and may remain in the body for weeks, months or even years. Accurately predicting and evaluating the degradation rate of these materials is critical to their performance and the controlled release of bioactive agents. Degradation rate of bioresorbable materials provides a comprehensive review of the most important techniques in safely predicting and evaluating the degradation rate of polymer, ceramic and composite based biomaterials. Part one provides an introductory review of bioresorbable materials and the biological environment of the body. Chapters in Part two address degradation mechanisms of commonly used materials such as polymers and ceramics. This is followed by chapters on bioresorption test methods and modelling techniques in Part three. Part four discusses factors influencing bioresorbability such as sterilisation, porosity and host response. The final section reviews current clinical applications of bioresorbable materials. With its distinguished editor and multidisciplinary team of international contributors, Degradation rate of bioresorbable materials: prediction and evaluation provides a unique and valuable reference for biomaterials scientists, engineers and students as well as the medical community. Comprehensively reviews the most pertinent techniques in safely predicting and evaluating the degradation rate of bioresorbable materials Addresses degradation mechanisms of commonly used materials Discusses factors influencing bioresorbability such as sterilisation and host response

Index; 1904 - University of Massachusetts at Amherst 2021-09-09

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Park Practice Program Index - 1984

Biggs V. Village of Dupo - 1988

The Ness of Brodgar - Roy Towers 2017