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Coal Conversion United States. Division of Coal Conversion 1978

Electrochemical Science and Technology Keith Oldham 2011-11-21 Electrochemistry is a discipline of wide scientific and technological interest. Scientifically, it explores the electrical properties of materials and especially the interfaces between different kinds of matter. Technologically, electrochemistry touches our lives in many ways that few fully appreciate; for example, materials as diverse as aluminum, nylon, and bleach are manufactured electrochemically, while the batteries that power all manner of appliances, vehicles, and devices are the products of electrochemical research. Other realms in which electrochemical science plays a crucial role include corrosion, the disinfection of water, neurophysiology, sensors, energy storage, semiconductors, the physics of thunderstorms, biomedical analysis, and so on. This book treats electrochemistry as a science in its own right, albeit resting firmly on foundations provided by chemistry, physics, and mathematics. Early chapters discuss the electrical and chemical properties of materials from which electrochemical cells are constructed. The behavior of such cells is addressed in later chapters, with emphasis on the electrodes and the reactions that occur on their surfaces. The role of transport to and from electrodes is a topic that commands attention, because it crucially determines cell efficiency. Final chapters deal with voltammetry, the methodology used to investigate electrode behavior. Interspersed among the more fundamental chapters are chapters devoted to applications of electrochemistry: electrosynthesis, power sources, “green electrochemistry”, and corrosion. Electrochemical Science and Technology is addressed to all who have a need to come to grips with the fundamentals of electrochemistry and to learn about some of its applications. It will constitute a text for a senior undergraduate or graduate course in electrochemistry. It also serves as a source of material of interest to scientists and technologists in various fields throughout academia, industry, and government – chemists, physicists, engineers, environmentalists, materials scientists, biologists, and those in related endeavors. This book: Provides a background to electrochemistry, as well as treating the topic itself. Is accessible to all with a foundation in physical science, not solely to chemists. Is addressed both to students and those later in their careers. Features web links (through www.wiley.com/go/EST) to extensive material that is of a more tangential, specialized, or mathematical nature. Includes questions as footnotes to support the reader’s evolving comprehension of the material,

with fully worked answers provided on the web. Provides web access to Excel® spreadsheets which allow the reader to model electrochemical events. Has a copious Appendix of relevant data.

The Chemical News and Journal of Physical Science 1869

Modern Chlor-Alkali Technology N.M. Prout 2012-12-06 The papers in this book were submitted for the 1988 London International Chlorine Symposium. This was the fifth symposium organised by the Electro chemical Technology Group of the Society of Chemical Industry and proved as popular as ever, attracting a record number of 294 delegates from 31 countries. Twenty-seven papers were presented during the two and a half-day event covering the latest developments in chlor-alkali technology. The field of membranes and membrane cells was well represented by some 15 papers, reflecting the importance of membrane technology to the future of the industry. This is particularly relevant in view of increasing environmental pressures and rising costs. However, papers relating to the more traditional mercury and diaphragm cell technologies were also presented, together with a paper concerned with sodium chlorate manufacture. In addition, there were presentations covering the commercial and safety aspects of the chlor-alkali industry. The Electrochemical Technology Group of the Society of Chemical Industry offer thanks to the many people and organisations whose help ensured the success of this symposium. In particular, we would like to thank: 1. The contributors of the papers. 2. The session chairmen: Dr R. G. Smerko (The Chlorine Institute Inc.); Mr B. Lott (The Associated Octel Company Limited); Mr T. F. O'Brien (United Engineers and Constructors); Dr B. S. Gilliatt (ICI Chemicals and Polymers Limited); Mr D. Bell (Hays Chemicals Limited). 3. The Chlorine Institute for assistance with printing costs and for active participation.

Textbook of Medical Biochemistry MN Chatterjea 2011-10 The eighth edition of Textbook of Medical Biochemistry provides a concise, comprehensive overview of biochemistry, with a clinical approach to understand disease processes. Beginning with an introduction to cell biology, the book continues with an analysis of biomolecule chemistry, molecular biology and metabolism, as well as chapters on diet and nutrition, biochemistry of cancer and AIDS, and environmental biochemistry. Each chapter includes numerous images, multiple choice and essay-style questions, as well as highlighted text to help students remember the key points.

AQA GCSE Religious Studies A (9-1): Christianity Revision Guide Marianne Fleming 2018-03-22 Building on the Oxford AQA GCSE Religious Studies Student Book, this Revision Guide offers a structured approach to revising for the new 9-1 exams. 1. RECAP: key content from the Student Book is condensed and re-presented in simple visual styles to make content memorable and help retention. 2. APPLY: students actively apply the content they have just revised to build the knowledge and evaluative skills needed for the exams. 3. REVIEW: regular opportunities to practice exam questions and review answers direct students to pinpoint any areas of weakness in knowledge or exam skills, identifying where theyll need to concentrate their efforts for further revision. With all the essential content condensed and made memorable, and plenty of exam practice, tips and annotated sample answers, students can confidently prepare for their new exams.

Just Listen to Your Body and Eat Lise Bourbeau 2012-02 The goals of this book are to help you discover that besides hunger there are six other factors that make you want to eat; help you realize how much you control what you eat, how you are doing this and why it may be harmful to you; teach you to quickly recognize the emotional wounds preventing you from eating a nutritious diet; help you love and accept yourself at every moment.

Comprehensive Treatise of Electrochemistry Peter Horsman 2013-11-11

Novel Trends in Electroorganic Synthesis Sigeru Torii 2013-03-09 Among the topics of interest to organic chemists today are the versatility and uniqueness of electrolysis procedures in organic synthesis, as well as the latest advances in methodology, including basic concepts for the design of electrolysis conditions and apparatus. The International Symposium on Electroorganic Synthesis met in Kurashiki, Japan, in September 1997 for lectures on all aspects of current research in the field. This volume comprising the papers from the symposium consists of two parts. Part I, Electrooxidation, includes papers on alcohols and phenols, olefins and aromatics, halogenation, polymers, and electrodes, among others. Included in Part II, Electroreduction, are papers on carbonyl compounds, halogen-containing compounds, reaction with EG bases, and metal complexes. The novel trends presented here will be of special interest to researchers and graduate students in electroorganic chemistry and are a valuable resource for all organic chemists.

Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971 New York Public Library. Research Libraries 1979

Quantum Theory Niels Bohr 2019-09-16 Quantum Theory contains the seminal works of quantum theory from the early years of the 20th Century, representing breakthroughs in science that radically altered the landscape of modern knowledge: Quantum Theory of Line-Spectra by Niels Bohr and The Origin and Development of the Quantum Theory by Max Planck. FLAME TREE's Great Works That Shape Our World is a new series of definitive books drawing on ancient, medieval and modern writing. Created to entertain, inform and enrich the new series brings infinite variety to refresh the mind, presented in beautiful editions for the modern market. Each book features a new, accessible introduction placing the book in context both as part of the new series, and its special contribution to the advancement of human understanding. New Introductions specially written for these editions examine the significance of each work, their impact at time of publication, and their influence today.

Listen to Your Body Lise Bourbeau 1998 This book was written for those who have made a conscious decision to improve the quality of their lives and have decided to take control. The author provides the tools and the guidelines necessary for step by step personal development in every area of life. Based on the concept of Whole Mind Integration, the book is presented in five parts. Excercises at the end of each chapter provide the opportunity for guided practical application of the concepts presented.

Nanotechnology Ram Prasad 2017-06-14 This book highlights the implications of nanotechnology and the effects of nanoparticles on agricultural systems, their interactions with plants as well as their potential applications as fertilizers and pesticides. It also discusses how innovative, eco-friendly approaches to improve food and agricultural systems lead to increased plant productivity. Further, it offers insights into the current trends and future prospects of nanotechnology along with the benefits and risks and their impact on agricultural ecosystems. Nanomaterials in agriculture reduce the amount of chemical products sprayed by means of smart delivery of active ingredients; minimize nutrient losses in fertilization; and increase yields through optimized water and nutrient management. There is also huge potential for nanotechnology in the provision of state-of-the-art solutions for various challenges faced by agriculture and society, both today and in the future.

Solid Fuels and Heavy Hydrocarbon Liquids: Thermal Characterization and Analysis Rafael Kandiyoti 2006-04-06 The first strand involves a critical overview of the design of experimental methods used for examining the thermal behaviour of solid fuels [pyrolysis, liquefaction and gasification], while the second

will emphasise chemical structures and molecular mass distributions of coal derived tars, extracts and pitches, petroleum-derived asphaltenes, and biomass derived heavy hydrocarbon liquids. Two major, interdependent strands in the study of fossil and renewable fuel utilisation are focused on within this text: (i) Thermal characterisation of solid fuels including various ranks of coals, biomass and waste, and, (ii) The analytical characterisation of heavy hydrocarbon liquids, covering coal, petroleum and biomass derived heavy fractions. Two major, interdependent strands in the study of fossil and renewable fuel utilisation are focused on within this text: (i) Thermal characterisation of solid fuels including various ranks of coals, biomass and waste, and, (ii) The analytical characterisation of heavy hydrocarbon liquids, covering coal, petroleum and biomass derived heavy fractions.

Killer Verse Harold Schechter 2011 A seasonally appropriate anthology of poems about the deadly art of murder ranges from old Scottish ballads to hard-boiled 20th-century noir and includes depictions of colorful villains and victims as immortalized by such writers as Browning, Hardy and Auden.

Disasterology Samantha Montano 2021-08-03 Part memoir, part expert analysis, Disasterology is a passionate and personal account of a country in crisis—one unprepared to deal with the disasters of today and those looming in our future. With temperatures rising and the risk of disasters growing, our world is increasingly vulnerable. Most people see disasters as freak, natural events that are unpredictable and unpreventable. But that simply isn't the case – disasters are avoidable, but when they do strike, there are strategic ways to manage the fallout. In Disasterology, Dr. Montano, a disaster researcher, brings readers with her on an eye-opening journey through some of our worst disasters, helping readers make sense of what really happened from a emergency management perspective. She explains why we aren't doing enough to prevent or prepare for disasters, the critical role of media, and how our approach to recovery was not designed to serve marginalized communities. Now that climate change is contributing to the disruption of ecosystems and worsening disasters, Dr. Montano offers a preview of what will happen to our communities if we don't take aggressive, immediate action. In a section devoted to the COVID-19 pandemic, what is thus far our generation's most deadly disaster, she casts light on the many decisions made behind closed doors that failed to protect the public. A deeply moving and timely narrative that draws on Dr. Montano's first-hand experience in emergency management, Disasterology is essential reading for anyone who wants to understand how our country handles disasters, and how we can better face them together.

Identity Break Stifyn Emrys 2013-02-01 How far would you go to find yourself? Imagine everything you thought you knew about yourself turned out to be a lie, and you didn't know who was telling the truth. Imagine you possessed a secret so dangerous that, if it were exposed, it would reshape the entire world. What would you do if that secret were your very identity? In almost every way, Palo Vista seems like a typical California city, with office buildings, schools, and homes sprawled out across suburbia, filled with families making a life for themselves at the dawn of the new millennium. But two seniors at Mt. MacMurray High are about to find out that nothing is as it seems. Jason Nix is a star athlete and honors student who can't seem to remember anything about his childhood. Elyse Van Auten is a budding artist from a broken home whose father left her mother two years ago - or so she's been led to believe. Like most teens entering adulthood, Elyse and Jason just want to find out who they really are. For them, however, the stakes go far beyond their own personal quest. Join them on a journey of self-discovery that becomes a desperate fight for survival against enemies determined to conceal the truth ... and find out what happens when that fight becomes personal.

Bioactive Phytochemicals from Vegetable Oil and Oilseed Processing By-products Mohamed Fawzy Ramadan Hassanien 2023-04-01 This book comprehensively reviews the phytochemistry, functional

properties, and health-promoting effects of bioactive compounds found in oil processing by-products, and it also explores the food and non-food applications of these by-products. Several oilseeds, vegetables, and fruits are cultivated for their oils and fats, wherein the oil extraction industry generates a huge amount of waste (meal or cake). The valorisation of this waste would be very beneficial not only from the economic and environmental perspectives, but also for the potential applications in food, cosmetics and pharmaceutical industries, in which phytochemicals derived from vegetable oil and oilseed processing by-products play an important role in, for instance, extending the shelf life of several products and providing added-value properties with their antioxidant and antimicrobial properties. In this work, expert contributors discuss about the added-value of biowaste from common and non-traditional vegetable oils and oilseeds processing, as well as fruit oils processing, and offer an extensive overview of the different bioactive compounds found in extracts from oil processing by-products and their chemical composition. The book also collects several examples in which oil processing by-products are integrated into industrial activities such as food production, livestock production and in pharmaceutical and cosmetics industries. Professionals and scholars alike interested in the recycling of agro-industrial wastes derived from vegetable oil and oilseed processing by-products will find this book a handy reference tool.

Guidebook for the Design of ASME Section VIII Pressure Vessels James R. Farr 2010 This is a fully revised and updated fourth edition of a classic guidebook. It covers the current requirements of the ASME Section VIII-1 as well as the requirements of the newly published VIII-2 .Whether you are a beginning design engineer or an experienced engineering manager developing a mechanical integrity program, this updated volume gives you a thorough examination and review of the requirements applicable to the design, material requirements, fabrication details, inspection requirements effecting joint efficiencies, and testing of pressure vessels and their components. Guidebook for Design of ASME Section VIII Pressure Vessels provides you with a review of the background issues, reference materials, technology, and techniques necessary for the safe, reliable, cost-efficient function of pressure vessels in the petrochemical, paper, power, and other industries. Solved examples throughout the volume illustrate the application of various equations given in both Sections VIII-1 and VIII-2.

Hydrogels for Tissue Engineering and Regenerative Medicine Miguel Oliveira 2022-02-15 Hydrogels for Tissue Engineering and Regenerative Medicine: From Fundaments to Applications provides the reader with a comprehensive, concise and thoroughly up-to-date resource on the different types of hydrogels in tissue engineering and regenerative medicine. The book is divided into three main sections that describe biological activities and the structural and physicochemical properties of hydrogels, along with a wide range of applications, including their combination with emerging technologies. Written by a diverse range of international academics for professionals, researchers, undergraduate and graduate students, this groundbreaking publication fills a gap in literature needed in the tissue engineering and regenerative medicine field. Reviews the fundamentals and recent advances of hydrogels in tissue engineering and regenerative medicine applications Presents state-of-the-art methodologies for the synthesis and processing of different types of hydrogels Includes contributions by leading experts in engineering, the life sciences, microbiology and clinical medicine

The Star Builders Arthur Turrell 2021-08-03 From a young, award-winning scientist, a “thoughtful and illuminating” (Nature) look at one of the most compelling and historic turning points of our time—the race to harness the power of the stars and produce controlled fusion, creating a practically unlimited supply of clean energy. The most important energy-making process in the universe takes place inside stars. The ability to duplicate that process in a lab, once thought impossible, may now be closer than we think. Today, teams of scientists around the world are being assembled by the boldest entrepreneurs, big business, and governments to solve what is the most difficult technological challenge humanity has ever

faced: building the equivalent of a star on earth. If their plans to capture star power are successful, they will unlock thousands, potentially millions, of years of clean, carbon-free energy. Not only would controlled nuclear fusion help solve the climate crisis, it could also make other highly desired technological ambitions possible—like journeying to the stars. Given the rising alarm over deterioration of the environment, and the strides being made in laser and magnetic field technology, powerful momentum is gathering behind fusion and the possibilities it offers. In The Star Builders, award-winning young plasma physicist Arthur Turrell “offers an optimistic outlook for the future of fusion power and is adamant about the need to invest in it” (The New York Times). Turrell describes fascinating star machines with ten times as many parts as the NASA Space Shuttle, and structures that extend over 400 acres in an accessible and entertaining account, spotlighting the individuals, firms, and institutions racing for the finish line: science-minded entrepreneurs like Jeff Bezos and Peter Thiel, companies like Goldman Sachs and Google, universities like Oxford and MIT, and virtually every rich nation. It’s an exciting and game-changing international quest that will make all of us winners.

Radionuclide and Metal Sorption on Cement and Concrete Michael Ochs 2015-10-17 Cementitious materials are being widely used as solidification/stabilisation and barrier materials for a variety of chemical and radioactive wastes, primarily due to their favourable retention properties for metals, radionuclides and other contaminants. The retention properties result from various mineral phases in hydrated cement that possess a high density and diversity of reactive sites for the fixation of contaminants through a variety of sorption and incorporation reactions. This book presents a state of the art review and critical evaluation of the type and magnitude of the various sorption and incorporation processes in hydrated cement systems for twenty-five elements relevant for a broad range of radioactive and industrial wastes. Effects of cement evolution or ageing on sorption/incorporation processes are explicitly evaluated and quantified. While the immobilisation of contaminants by mixing-in during hydration is not explicitly addressed, the underlying chemical processes are similar. A quantitative database on the solid/liquid distribution behaviour of radionuclides and other elements in hydrated cement systems is established on the basis of a consistent review and re-evaluation of literature data. In addition to recommended values, all underlying original experimental data and key experimental info rmation are provided, which allows users to trace the given recommendations or to develop their own set of key values. This database is closely tied to the safety analysis of near surface disposal of radioactive waste in Belgium. It focuses on radioelements, toxic stable elements and heavy metals, which makes it relevant for investigations involving the interaction of radioactive and conventional contaminants with cement-based barriers.

Trace Element Emissions Leslie L. Sloss 2000

Thermal Biomass Conversion A. V. Bridgwater 2009 This title presents the results from ThermalNet, which is the latest thermal biomass conversion network to be carried out on a European basis.

How to Build Self-Discipline Martin Meadows 2015-06-05 How to Develop Self-Discipline, Resist Temptations and Reach Your Long-Terms Goals If you want to make positive changes in your life and achieve your long-term goals, I can’t think of a better way to do it than to learn how to become more self-disciplined. Science has figured out a lot of interesting aspects of self-discipline and willpower, but most of this knowledge is buried deep inside long and boring scientific papers. If you’d like to benefit from these studies without actually reading them, this book is for you. I’ve done the job for you and researched the most useful and viable scientific findings that will help you improve your self-discipline. Here are just a couple things you will learn from the book: - what a bank robber with lemon juice on his face can teach you about self-control. The story will make you laugh out loud, but its implications will

make you think twice about your ability to control your urges. - how $50 chocolate bars can motivate you to keep going when faced with an overwhelming temptation to give in. - why President Obama wears only gray and blue suits and what it has to do with self-control (it's also a possible reason why the poor stay poor). - why the popular way of visualization can actually prevent you from reaching your goals and destroy your self-control (and what to do instead). - what dopamine is and why it's crucial to understand its role to break your bad habits and form good ones. - 5 practical ways to train your self-discipline. Discover some of the most important techniques to increase your self-control and become better at resisting instant gratification. - why the status quo bias will threaten your goals and what to do to reduce its effect on your resolutions. - why extreme diets help people achieve long-term results, and how to apply these findings in your own life. - why and when indulging yourself can actually help you build your self-discipline. Yes, you can stuff yourself (from time to time) and still lose weight. Instead of sharing with you the detailed "why" (with confusing and boring descriptions of studies), I will share with you the "how" – advice that will change your life if you decide to follow it. You too can master the art of self-discipline and learn how to resist temptations. Your long term goals are worth it. Scroll up and buy the book now. As a gift for buying my book, you'll get my another book, "Grit: How to Keep Going When You Want to Give Up." Keywords: Develop self discipline, willpower and self discipline, self-discipline, self control books, stress, reach your goals, self-control, achieve your goals, instant gratification, long term goals, goal setting success, goal setting books, how to reach your goals, how to achieve your goals, persistence, how not to give up, stick to a diet, stay motivated, build habits, delayed gratification, personal development

Quarantine Life from Cholera to COVID-19 Kari Nixon 2021-06-15 For readers of Mary Roach and Jared Diamond, an innovative look at the histories of different epidemics and what it meant for society, alongside what lessons different diseases have to teach us as society battles the novel coronavirus. Throughout history, there have been numerous epidemics that have threatened mankind with destruction. Diseases have the ability to highlight our shared concerns across the ages, affecting every social divide from national boundaries, economic categories, racial divisions, and beyond. Whether looking at smallpox, HIV, Ebola, or COVID-19 outbreaks, we see the same conversations arising as society struggles with the all-encompassing question: What do we do now? In "poignant yet relevant detail" (Niki Kapsambelis, author of The Inheritance), Quarantine Life from Cholera to COVID-19 demonstrates that these conversations have always involved the same questions of individual liberties versus the common good, debates about rushing new and untested treatments, considerations of whether quarantines are effective to begin with, what to do about healthy carriers, and how to keep trade circulating when society shuts down. This vibrant social and medical history tracks different diseases and outlines their trajectory, what they meant for society, and societal questions each disease brought up, along with practical takeaways we can apply to current and future pandemics—so we can all be better prepared for whatever life throws our way.

Bionanocomposites in Tissue Engineering and Regenerative Medicine Shakeel Ahmed 2021-06-03 Bionanocomposites in Tissue Engineering and Regenerative Medicine explores novel uses of these in tissue engineering and regenerative medicine. This book offers an interdisplinary approach, combining chemical, biomedical engineering, materials science and pharmacological aspects of the characterization, synthesis and application of bionanocomposites. Chapters cover a broad selection of bionanocomposites including chitosan, alginate and more, which are utilized in tissue engineering, wound healing, bone repair, drug formulation, cancer therapy, drug delivery, cartilage regeneration and dental implants. Additional sections of Bionanocomposites in Tissue Engineering and Regenerative Medicine discuss, in detail, the safety aspects and circular economy of bionanocomposites – offering an insight into the commercial and industrial aspects of these important materials. Bionanocomposites in Tissue

Engineering and Regenerative Medicine will prove a highly useful text for for those in the fields of biomedical engineering, chemistry, pharmaceutics and materials science, both in academia and industrial R&D groups. Each bionanocomposite type is covered individually, providing specific and detailed information for each material Covers a range of tissue engineering and regenerative medicine applications, from dental and bone engineering to cancer therapy Offers an integrated approach, with contributions from authors across a variety of related disciplines, including biomedical engineering, chemistry and materials science

Coal and Biomass Gasification Santanu De 2017-12-13 This book addresses the science and technology of the gasification process and the production of electricity, synthetic fuels and other useful chemicals. Pursuing a holistic approach, it covers the fundamentals of gasification and its various applications. In addition to discussing recent advances and outlining future directions, it covers advanced topics such as underground coal gasification and chemical looping combustion, and describes the state-of-the-art experimental techniques, modeling and numerical simulations, environmentally friendly approaches, and technological challenges involved. Written in an easy-to-understand format with a comprehensive glossary and bibliography, the book offers an ideal reference guide to coal and biomass gasification for beginners, engineers and researchers involved in designing or operating gasification plants.

Molten Salt Chemistry Gleb Mamantov 2012-12-06 Molten salts are of considerable significance to chemical technology. Applications range from the established ones, such as the production of aluminum, magnesium, sodium and fluorine, to those as yet to be fully exploited, such as molten salt batteries and fuel cells, catalysis, and solar energy. Molten salts are investigated for different purposes by many diverse techniques. There is a need to keep investigators working in different areas, such as metal production, power sources, and glass industry, aware of progress in various specialties, as well as to familiarize new research workers with the fundamental aspects of the broad field of molten salt _ chemistry. This volume constitutes the plenary lectures presented at the NATO Advanced Study Institute on Molten Salt Chemistry, Camerino, Italy, August 3-15, 1986. The fundamentals and several selected applications of molten salt chemistry were addressed. The major fundamental topics covered at this ASI were the structure of melts, thermodynamics of molten salt mixtures, theoretical and experimental studies of transport processes, metal-metal salt solutions, solvent properties of melt systems, acid-base effects in molten salt chemistry, electronic absorption, vibrational, and nuclear magnetic resonance spectroscopy of melt systems, electrochemistry and electroanalytical chemistry in molten salts, and organic chemistry in molten salts. The applied aspects of molten salt chemistry included the chemistry of aluminum production, electrodeposition using molten salts, and molten salt batteries and fuel cells.

Refrigeration And Airconditioning P. L. Ballaney 1985

Energy Research Abstracts 1979 Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

Aluminium Electrolysis Fellner,_P. 2001

Fossil Energy Update 1981

Natural and Laboratory Simulated Thermal Geochemical Processes Raphael Ikan 2003-05-31 Natural and Laboratory-Simulated Thermal Geochemical Processes compares a series of thermal natural geochemical events with thermally laboratory-simulated processes. The emphasis is on the geothermal events occurring in nature compared with those simulated in the laboratory, thus furnishing important information at the molecular level for such processes. The book covers the following topics: -Generation of petroleum and its thermal cracking; -Pyrolysis of oil-shales; -Formation of coal and its gasification and liquification; -Thermal liquification of biomass; -Geothermal energy; -Thermal generation of fullerenes; -Thermal formation of diamonds; -Thermal analysis of organo-clay complexes; -Geochemical conditions for life emergence.

Magnesium Products Design Robert S. Busk 1987 Very Good,No Highlights or Markup,all pages are intact.

Bad Science Ben Goldacre 2010-10-12 Have you ever wondered how one day the media can assert that alcohol is bad for us and the next unashamedly run a story touting the benefits of daily alcohol consumption? Or how a drug that is pulled off the market for causing heart attacks ever got approved in the first place? How can average readers, who aren't medical doctors or Ph.D.s in biochemistry, tell what they should be paying attention to and what's, well, just more bullshit? Ben Goldacre has made a point of exposing quack doctors and nutritionists, bogus credentialing programs, and biased scientific studies. He has also taken the media to task for its willingness to throw facts and proof out the window. But he's not here just to tell you what's wrong. Goldacre is here to teach you how to evaluate placebo effects, double-blind studies, and sample sizes, so that you can recognize bad science when you see it. You're about to feel a whole lot better.

Energy Conversion Engineering 1976

Advances in Electron Transfer Chemistry Patrick S. Mariano 2013-10-22 Advances in Electron Transfer Chemistry, Volume 3 presents studies that discuss findings in the various aspects of electron chemistry. The book is comprised of four chapters; each chapter reviews a work that tackles an issue in electron transfer chemistry. Chapter 1 discusses the photoinduced electron transfer in flexible biaryl donor-acceptor molecules. Chapter 2 tackles light-induced electron transfer in inorganic systems in homogeneous and heterogeneous phases. The book also covers internal geometry relaxation effects on electron transfer rates of amino-centered systems. The sequential electron transfer reactions catalyzed by cytochrome p-450 enzymes are also dealt with. The text will be of great use to researchers interested in the field of electron transfer chemistry.

Animals Strike Curious Poses Elena Passarello 2017-02-06 “It might be the best book on animals I’ve ever read. It's also the only one that's made me laugh out loud.” —Helen Macdonald, The New York Times Book Review Beginning with Yuka, a 39,000-year-old mummified woolly mammoth recently found in the Siberian permafrost, each of the sixteen essays in Animals Strike Curious Poses investigates a different famous animal named and immortalized by humans. Modeled loosely after a medieval bestiary, these witty, playful, whip-smart essays, from a winner of a Whiting Award for nonfiction, traverse history, myth, science, and more, bringing each beast vibrantly to life. “Stunning . . . Passarello’s keen wit is on display throughout as she raises questions about the uniqueness of humans. . . . A feast of surprising juxtapositions and gorgeous prose.” —Publishers Weekly (starred review) “I’ve spent decades reading books on the roles animals play in human cultures, but none have ever made me think, and feel, as much as this one. It’s a devastating meditation on our relationship to the natural world.” —Helen Macdonald, The New York Times Book Review

Molten Salt Technology David G. Lovering 2014-11-14