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CreateSpace

For the first time, this comprehensive handbook presents the emerging field of microwave technology for the synthesis of nanoparticles. Divided into three parts--fundamentals, methods, and applications--it covers topics including microwave theory, scale-up, microwave plasma synthesis, characterization, and more. This offers both an important volume for academic researchers, and a resource for those in industry exploring the applications of nanoparticles in semiconductors, electronics, catalysis, sensors, and more.

The Beacon of the Enlightenment Columbia University Press

"Landscapes and cycles demonstrates why landscape change, far more than the levels of carbon dioxide, deserve our full attention. Landscapes and cycles is easily understood by the layperson. It outlines how to build a more resilient

environment and provides the perspective method needed to critically appraise the overzealous catastrophic predictions that dominate the media. It will enlighten anyone concerned about climate change and the fate of endangered species."--Page 4 of cover.

Study Guide to Dealing with Difficult Parents Springer Science & Business Media

"This book provides a comprehensive analysis of IPOs. The chapters cover the latest information on a range of fundamental questions, including: How are IPOs regulated? How are IPOs valued? How well does an IPO perform in the short and long run, and what are the drivers of performance"--

Satellite Image Atlas of Glaciers of the World John Wiley & Sons

2020 James Beard Award Winner The major new cookbook by the pioneer from Bread Alone, who revolutionized American artisan bread baking, with 60 recipes inspired by bakers around the world. At twenty-two, Daniel Leader stumbled across the intoxicating perfume of bread baking in the back room of a Parisian boulangerie, and he has loved and devoted himself to making quality bread ever since. He

went on to create Bread Alone, the now-iconic bakery that has become one of the most beloved artisan bread companies in the country. Today, professional bakers and bread enthusiasts from all over the world flock to Bread Alone's headquarters in the Catskills to learn Dan's signature techniques and baking philosophy. But though Leader is a towering figure in bread baking, he still considers himself a student of the craft, and his curiosity is boundless. In this groundbreaking book, he offers a comprehensive picture of bread baking today for the enthusiastic home baker. With inspiration from a community of millers, farmers, bakers, and scientists, Living Bread provides a fascinating look into the way artisan bread baking has evolved and continues to change--from wheat farming practices and advances in milling, to sourdough starters and the mechanics of mixing dough. Influenced by art and science in equal measure, Leader presents exciting twists on classics such as Curry Tomato Ciabatta, Vegan Brioche, and Chocolate Sourdough Babka, as well as traditional recipes. Sprinkled with anecdotes and evocative photos from Leader's own travels and encounters with artisans who have influenced him, Living Bread is a love letter, and a cutting-edge guide, to the practice of making "good bread."

Protocols for Oligonucleotide Conjugates Walter de Gruyter

This book covers the latest knowledge in structure, signaling, and biochemical pharmacology of KOR as well as preclinical research and clinical applications (including clinical phase studies and approved for human use) of KOR compounds. It is divided up into the three parts: Molecular aspects of KOR, Preclinical

research on pharmacology of KOR agonists and antagonists in animals and KOR agonists and antagonists in clinical use and in past and present clinical trials. The chapters "Biosensors monitor ligand-selective effects at kappa opioid receptors" and "The role of dynorphin and the kappa opioid receptor in schizophrenia and major depressive disorder: a translational approach" of this book are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Ecology of Tidal Freshwater Forested Wetlands of the Southeastern United States Backbeat Books

Food preservation by irradiation is gaining recognition as a technology that is more environmentally benign than other current processes such as post-harvest chemical fumigation, it has less impact on thermally sensitive compounds than thermal decontamination technologies such as hot water or steam, and the technology is more accessible and cheaper. As the technical and economic feasibility, as well as the level of consumer acceptance, have increased its use has been growing fast. International organizations including the Food and Agriculture Organization of the United Nations (FAO), the International Atomic Energy Agency (IAEA) and the World Health Organization (WHO) have coordinated and worked with others to develop norms and review the safety and efficacy of irradiated foods. Commended in the Foreword by Carl Blackburn, Food Irradiation Specialist, Joint FAO / IAEA Division of Nuclear Techniques in Food and Agriculture, this book makes a strong case for the use of this overwhelmingly safe food processing technique. This comprehensive book is a useful reference for food technologists, analytical chemists and food processing professionals, covering all aspects of gamma, electron beam and X-ray food irradiation, its impact on food matrices and microorganisms, legislation and market aspects. It is the first book to cover control and structural analysis in food irradiation and, being written by leading experts in the field, addresses the current global best practices. It contains updated information about the

commercial application of food irradiation technology, especially regarding the type of radiation based on food classes and covers dosimetry, radiation chemistry, food decontamination, food quarantine, food processing and food sterilization.

Vitamins in the prevention of human diseases
Oxford Handbooks

Take your idea from concept to production with this unique guide Whether it's called physical computing, ubiquitous computing, or the Internet of Things, it's a hot topic in technology: how to channel your inner Steve Jobs and successfully combine hardware, embedded software, web services, electronics, and cool design to create cutting-edge devices that are fun, interactive, and practical. If you'd like to create the next must-have product, this unique book is the perfect place to start. Both a creative and practical primer, it explores the platforms you can use to develop hardware or software, discusses design concepts that will make your products eye-catching and appealing, and shows you ways to scale up from a single prototype to mass production. Helps software engineers, web designers, product designers, and electronics engineers start designing products using the Internet-of-Things approach Explains how to combine sensors, servos, robotics, Arduino chips, and more with various networks or the Internet, to create interactive, cutting-edge devices Provides an overview of the necessary steps to take your idea from concept through production If you'd like to design for the future, Designing the Internet of Things is a great place to start.

Materials and Processes for CO₂ Capture,

Conversion, and Sequestration Humana Press

Newly revised and updated, this do-it-yourself primer for owning and maintaining an electric guitar covers a vast array of essential information, including choosing the right guitar, personalizing and

improving on a "factory setup," basic guitar electronics, troubleshooting and much more. Original.

The Cystic Kidney Academic Press

This Study Guide provides a variety of thought-provoking questions and activities to help you implement the concepts in the bestselling book, Dealing with Difficult Parents, 2nd Edition. For each chapter of the book, the Study Guide offers discussion questions, journal prompts, and group activities. You can work on these sections independently, in book studies, in professional learning communities (PLCs), in mentor sessions, and in professional development sessions. As you work through this Study Guide, you ' ll learn how to make the book ' s strategies work for you, so that you can more effectively deal with parents in all kinds of challenging situations and help them get on your side to ensure students ' success.

Le Breviari d'amor de Matfre Ermengaud,
suivi de sa lettre à sa soeur. Intr. et glossaire
par G.Aza ï s John Wiley & Sons

Addresses materials, technology, and products that could help solve the global environmental crisis once commercialized This multidisciplinary book encompasses state-of-the-art research on the topics of Carbon Capture and Storage (CCS), and complements existing CCS technique publications with the newest research and reviews. It discusses key challenges involved in the CCS materials design, processing, and modeling and provides in-depth coverage of solvent-based carbon capture, sorbent-based carbon capture, membrane-based carbon capture, novel carbon capture methods, computational modeling, carbon capture materials including metal organic frameworks (MOF), electrochemical capture and conversion, membranes and solvents, and

geological sequestration. *Materials and Processes for CO₂ Capture, Conversion and Sequestration* offers chapters on: Carbon Capture in Metal-Organic Frameworks; Metal Organic Frameworks Materials for Post-Combustion CO₂ Capture; New Progress of Microporous Metal-Organic Frameworks in CO₂ Capture and Separation; In Situ Diffraction Studies of Selected Metal-Organic Framework (MOF) Materials for Guest Capture Applications; Electrochemical CO₂ Capture and Conversion; Electrochemical Valorization of Carbon Dioxide in Molten Salts; Microstructural and Structural Characterization of Materials for CO₂ Storage using Multi-Scale X-Ray Scattering Methods; Contribution of Density Functional Theory to Microporous Materials for Carbon Capture; and Computational Modeling Study of MnO₂ Octahedral Molecular Sieves for Carbon Dioxide Capture Applications. Addresses one of the most pressing concerns of society—that of environmental damage caused by the greenhouse gases emitted as we use fossil fuels Covers cutting-edge capture technology with a focus on materials and technology rather than regulation and cost Highlights the common and novel CCS materials that are of greatest interest to industrial researchers Provides insight into CCS materials design, processing characterization, and computer modeling *Materials and Processes for CO₂ Capture, Conversion and Sequestration* is ideal for materials scientists and engineers, energy scientists and engineers, inorganic chemists, environmental scientists, pollution control scientists, and carbon chemists. Concepts, Applications and Outcomes Vantage Press, Inc

This volume focuses on the investigatory methods applied to autosomal dominant polycystic kidney disease (ADPKD), one of

the most common human genetic diseases. ADPKD is caused by mutations in PKD1 and TRPP2, two integral membrane proteins that function as receptor/ion channels in primary cilia of tubular epithelial cells. Thus, ADPKD belongs to ciliopathies, a group of disorders caused by abnormal cilia formation or function. This proposed book will cover the state-of-the-art methods ranging from molecular biology, biochemistry, electrophysiology, to tools in model animal studies. Key Features Explores the role of cilia in polycystic kidney disease Focuses on myriad state-of-the-art methods and techniques Reviews specific mutations integral to this autosomal genetic disease Includes discussions of model systems Hurricanes and Typhoons Springer Science & Business Media

This book provides developers, engineers, researchers and students with detailed knowledge about the High Efficiency Video Coding (HEVC) standard. HEVC is the successor to the widely successful H.264/AVC video compression standard, and it provides around twice as much compression as H.264/AVC for the same level of quality. The applications for HEVC will not only cover the space of the well-known current uses and capabilities of digital video — they will also include the deployment of new services and the delivery of enhanced video quality, such as ultra-high-definition television (UHDTV) and video with higher dynamic range, wider range of representable color, and greater representation precision than what is typically found today. HEVC is the next major generation of video coding design — a flexible, reliable and robust solution that will support the next decade of video applications and ease the burden of video on world-wide network traffic. This book provides a detailed explanation of the various parts of the standard, insight into how it was developed, and in-depth discussion of algorithms and architectures for its implementation.

The Rare Earth Elements John Wiley & Sons
 Diana Lange has solved the mysteries of six panoramic maps of 19th c. Tibet and the Himalayas, known as the British Library's Wise

Collection. The result is both a spectacular illustrated ethnographic atlas and a unique compendium of knowledge concerning the mid-19th century Tibetan world, as well as a remarkable account of an academic journey of discovery. This large format book is lavishly illustrated in colour and includes four separate large foldout maps.

Photochemistry Chemical Storylines.

This book surveys the past, present, and potential future variability of hurricanes and typhoons on a variety of timescales using newly developed approaches based on geological and archival records, in addition to more traditional approaches based on the analysis of the historical record of tropical cyclone tracks. A unique aspect of the book is that it provides an overview of the developing field of paleotempestology, which uses geological, biological, and documentary evidence to reconstruct prehistoric changes in hurricane landfall. The book also presents a particularly wide sampling of ongoing efforts to extend the best track data sets using historical material from many sources, including Chinese archives, British naval logbooks, Spanish colonial records, and early diaries from South Carolina. The book will be of particular interest to tropical meteorologists, geologists, and climatologists as well as to the catastrophe reinsurance industry, graduate students in meteorology, and public employees active in planning and emergency management.

Synthesis and Analytical Techniques Springer Nature Inspired by Voltaire's advice that a text needs to be concise to have real influence, this anthology contains fiery extracts by forty eighteenth-century authors, from the most famous philosophers of the age to those whose brilliant writings are less well-known. These passages are immensely diverse in style and topic, but all have in common a passionate commitment to equality, freedom, and tolerance. Each text resonates powerfully with the issues our

world faces today. Tolerance was first published by the Société française d'étude du dix-huitième siècle (the French Society for Eighteenth-Century Studies) in the wake of the Charlie Hebdo assassinations in January 2015 as an act of solidarity and as a response to the surge of interest in Enlightenment values. With the support of the British Society for Eighteenth-Century Studies, it has now been translated by over 100 students and tutors of French at Oxford University.

Tumor Necrosis Factor OUP Oxford

The consumer price index (CPI) measures the rate at which prices of consumer goods and services change over time. It is used as a key indicator of economic performance, as well as in the setting of monetary and socio-economic policy such as indexation of wages and social security benefits, purchasing power parities and inflation measures. This manual contains methodological guidelines for statistical offices and other agencies responsible for constructing and calculating CPIs, and also examines underlying economic and statistical concepts involved. Topics covered include: expenditure weights, sampling, price collection, quality adjustment, sampling, price indices calculations, errors and bias, organisation and management, dissemination, index number theory, durables and user costs.

The Kappa Opioid Receptor Open Book Publishers

Handbook to accompany the students' anthology of prose and verse extracts with questions, glossaries and end vocabulary to provide motivation and well-supported resource for the Prose and Literature OCR examinations.

Designing the Internet of Things Edward Elgar Pub

Drawing on the continued wealth of photochemical research, this volume combines reviews on the latest advances in the field with specific topical highlights. Starting with periodical reports of the recent literature on physical and inorganic aspects, light induced reactions in cryogenic matrices, properties of transition-metal compounds, time-resolved spectroscopy, the exploitation of solar energy and the molecules of colour.

Coverage continues with highlighted topics, in the second part, from photoresponsive hydrogels, the tunable photoredox properties of organic dyes, light-driven asymmetric organocatalytic processes, dual gold – photoredox catalysis, the preparation and characterization of photosensitizers for triplet – triplet annihilation photon upconversion and the role of photochemistry on traditional synthetic processes. This volume will include for the first time a section entitled ‘ SPR Lectures on Photochemistry ’, providing examples for academic readers to introduce a photochemistry topic and precious help for students in photochemistry. Providing critical analysis of the topics, this book is essential reading for anyone wanting to keep up to date with the literature on photochemistry and its applications.

Antarctica : with Sections on the "Dry Valley" of Victoria Land Royal Society of Chemistry Lanthanides are of great importance for the electronic industries, this new book (from the EIBC Book Series) provides a comprehensive coverage of the basic chemistry, particularly inorganic chemistry, of the lanthanoid elements, those having a 4f shell of electrons. A chapter is describing the similarity of the Group 3 elements, Sc, Y, La, the group from which the lanthanoids originate and the group 13 elements, particularly aluminum, having similar properties. Inclusion of the group 3 and 13 elements demonstrates how the lanthanoid elements relate to other, more common, elements in the Periodic Table. Beginning chapters describe the occurrence and mineralogy of the elements, with a focus on structural features observed in compounds described in later chapters. The majority of the chapters is organized by the oxidation state of the elements, Ln(0), Ln(II), Ln(III), and Ln(IV). Within this organization the chapters are further distinguished by type of compound, inorganic (oxides and hydroxides, aqueous speciation,

halides, alkoxides, amides and thiolates, and chelates) and organometallic. Concluding chapters deal with diverse and critically important applications of the lanthanoids in electronic and magnetic materials, and medical imaging. An Environmentalist's Journey to Climate Skepticism Springer Science & Business Media Vitamins - especially B- and D-vitamins - influence the development and outcome of many neurodegenerative and other diseases. Among others, dementia, neural tube defects, epilepsy, and osteoporoses can be caused by vitamin deficiency. This book provides up-to-date knowledge on the role of water and fat soluble vitamins in the prevention of human diseases. Having knowledge about the association of vitamins and disease, as well as keeping track on the patients vitamin status has become increasingly important to every physician and clinical chemist.