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Vitiligo has been, until recently, a rather neglected area in dermatology and medicine. Patients complain about this situation, which has offered avenues to quacks, and has led to the near orphan status of the disease. The apparently, simple and poorly symptomatic presentation of the disease has been a strong disadvantage to its study, as compared to other common chronic skin disorders such as psoriasis and atopic dermatitis. Vitiligo is still considered by doctors as a non disease, a simple aesthetic problem. A good skin-based angle of attack is also lacking because generalized vitiligo is clearly epitomizing the view of skin diseases as simple targets of a systemic unknown dysregulation (diathesis), reflecting the Hippocratic doctrine. This view has mostly restricted vitiligo to the manifestation of an auto-immune diathesis in the past 30 years. Thus, skin events, which are easily detected using skin biopsies in most other situations, have not been precisely recorded, with the argument that a clinical diagnosis was sufficient for the management (or most commonly absence of management) of the patient. This book is an international effort to summarize the information

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gathered about this disorder at the clinical, pathophysiological and therapeutic levels. Its primary aim is to bridge current knowledge at the clinical and investigative level, to point to the many unsolved issues, and to delineate future priorities for research.

Lithium Batteries: Science and Technology is an up-to-date and comprehensive compendium on advanced power sources and energy related topics. Each chapter is a detailed and thorough treatment of its subject. The volume includes several tutorials and contributes to an understanding of the many fields that impact the development of lithium batteries. Recent advances on various components are included and numerous examples of innovation are presented. Extensive references are given at the end of each chapter. All contributors are internationally recognized experts in their respective specialty. The fundamental knowledge necessary for designing new battery materials with desired physical and chemical properties including structural, electronic and reactivity are discussed. The molecular engineering of battery materials is treated by the most advanced theoretical and experimental methods.

Modern Strategies for Heterocycle SynthesisMDPI

Nearly three thousand papers and patents are dedicated to the actual or potential uses of cyclodextrins in pharmacy and pharmaceutical formulations. This is the

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first book written for pharmacists and pharmaceutical technologists which not only critically summarizes the enormous amount of literature available, but which can be used as a handbook when looking for solutions to practical problems. The fundamentals -- chemistry of cyclodextrins and their derivatives -- their physical and chemical properties are condensed to the most relevant items in Chapters 1 and 2. Chapter 3 deals with the adsorption, metabolism and toxicological properties of cyclodextrins. Chapter 4 explains the formulation, structure, composition and advantageous effects of the cyclodextrin inclusion complexes. Chapter 5 describes the methods for preparation and characterization of drug/cyclodextrin complexes. Chapters 6 and 7 are dedicated to the pharmacokinetics, biopharmaceutical and technological aspects of drug/CD complexes. Chapter 8 treats the application and effects of cyclodextrins in various drug formulations. The Appendix comprises a collection of recipes for any type of drug formulation. This book is aimed at those who use cyclodextrins in drug formulations, to improve the properties of existing drug formulations, or who want to prepare quite new formulations.

Winner of the 2005 Harold Morton Landon Translation Award from the Academy of American Poets. In Works of Hesiod and the Homeric Hymns, highly acclaimed poet and translator Daryl Hine brings to life the words of Hesiod and

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the world of Archaic Greece. While most available versions of these early Greek writings are rendered in prose, Hine's illuminating translations represent these early classics as they originally appeared, in verse. Since prose was not invented as a literary medium until well after Hesiod's time, presenting these works as poems more closely approximates not only the mechanics but also the melody of the originals. This volume includes Hesiod's *Works and Days* and *Theogony*, two of the oldest non-Homeric poems to survive from antiquity. *Works and Days* is in part a farmer's almanac—filled with cautionary tales and advice for managing harvests and maintaining a good work ethic—and *Theogony* is the earliest comprehensive account of classical mythology—including the names and genealogies of the gods (and giants and monsters) of Olympus, the sea, and the underworld. Hine brings out Hesiod's unmistakable personality; Hesiod's tales of his escapades and his gritty and persuasive voice not only give us a sense of the author's own character but also offer up a rare glimpse of the everyday life of ordinary people in the eighth century BCE. In contrast, the Homeric Hymns are more distant in that they depict aristocratic life in a polished tone that reveals nothing of the narrators' personalities. These hymns (so named because they address the deities in short invocations at the beginning and end of each) are some of the earliest examples of *epyllia*, or short stories in the epic manner in

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Greek. This volume unites Hine's skillful translations of the Works of Hesiod and the Homeric Hymns—along with Hine's rendering of the mock-Homeric epic The Battle of the Frogs and the Mice—in a stunning pairing of these masterful classics. Recreation Business: Strategies for Success is a conversation about leisure-based businesses for classroom and online courses. From the point of view of a senior scholar who has studied leisure and its social contexts for 5 decades, Kelly begins by introducing the scope and variety of recreation businesses and discusses major issues in the field. Then he turns toward social and behavioral science research about recreation and leisure that has been developed since 1970, answering the question, how does this research guide and direct the beginning and operation of a recreation business? Throughout the book, Kelly encourages dialogue and learning through questions, cases, research ideas, debates, online resources, and more. The beginning is that leisure is different. The focus is on what a recreation business sells or rents: an experience. The crucial element is quality. And decades of study have yielded a lot of insight into how leisure experiences can be raised to a level that will attract and retain clients. John R. (Jack) Kelly

This open access book contains the research report of the Collaborative Research Center “Micro Cold Forming” (SFB 747) of the University of Bremen,

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Germany. The topical research focus lies on new methods and processes for a mastered mass production of micro parts which are smaller than 1mm (by forming in batch size higher than one million). The target audience primarily comprises research experts and practitioners in production engineering, but the book may also be of interest to graduate students alike.

WAKE UP AND SMELL THE SUCCESS! You already know the Starbucks story. Since 1992, its stock has risen a staggering 5,000 percent! The genius of Starbucks success lies in its ability to create personalized customer experiences, stimulate business growth, generate profits, energize employees, and secure customer loyalty-all at the same time. The Starbucks Experience contains a robust blend of home-brewed ingenuity and people-driven philosophies that have made Starbucks one of the world's "most admired" companies, according to Fortune magazine. With unique access to Starbucks personnel and resources, Joseph Michelli discovered that the success of Starbucks is driven by the people who work there-the "partners"-and the special experience they create for each customer. Michelli reveals how you can follow the Starbucks way to Reach out to entire communities Listen to individual workers and consumers Seize growth opportunities in every market Custom-design a truly satisfying experience that benefits everyone involved Filled with real-life insider stories, eye-opening

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anecdotes, and solid step-by-step strategies, this fascinating book takes you deep inside one of the most talked-about companies in the world today. For anyone who wants to learn from the best-and be the best-The Starbucks Experience is a rich, heady brew of unforgettable user-friendly ideas.

This book covers major technological advancements in, and evolving applications of, thermal and photovoltaic solar energy systems. Advances in technologies for harnessing solar energy are extensively discussed, with topics including the fabrication, compaction and optimization of energy grids, solar cells and panels. Leading international experts discuss the applications, challenges and future prospects of research in this increasingly vital field, providing a valuable resource for all researchers working in this field.

Caspases, Paracaspases, and Metacaspases: Methods and Protocols is a collection of laboratory protocols covering current methods that are employed to measure and detect activities of these proteases in diverse biological systems, ranging from unicellular organisms to mammals. Broken into two parts, the first part focuses on methods to measure, detect, and inhibit activation and activity of a subset of or specific caspases in vitro and in several model systems and organisms, primarily in the context of programmed cell death. The second part of the book provides experimental protocols for purification and in vitro and in vivo

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analysis of yeast, protozoan and plant metacaspases, as well as of a human paracaspase MALT1. Written in the highly successful Methods in Molecular Biology series format, the chapters include the kind of detailed description and implementation advice that is crucial for getting optimal results in the laboratory. Authoritative and practical, *Caspases, Paracaspases, and Metacaspases: Methods and Protocols* seeks to aid scientists easy-to-follow techniques. *Nanomaterials: Synthesis, Properties and Applications* provides a comprehensive introduction to nanomaterials, from how to make them to example properties, processing techniques, and applications. Contributions by leading international researchers and teachers in academic, government, and industrial institutions in nanomaterials provide an accessible guide for newcomers to the field. The coverage ranges from isolated clusters and small particles to nanostructured materials, multilayers, and nanoelectronics. The book contains a wealth of references for further reading. Individual chapters deal with relevant aspects of the underlying physics, materials science, and physical chemistry. This is one of the first books fully dedicated to the rapidly advancing and expanding research area of deep eutectic solvents. Written by the internationally recognized expert in solution chemistry, it supplies full information regarding preparation of these new eco-friendly solvents, their properties and applications.

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The current and potential applications of deep eutectic solvents as organic reaction media, catalytic system, in biomass processing, nanotechnology and metal finishing industry, as well as for extraction and separation are extensively discussed. This highly informative and carefully presented book will appeal to practicing chemists (organic chemists, polymer chemists, biochemists) as well as chemical engineers and environmental scientists.

Heavy metals always pose serious ecological risks when released into the environment due to their elemental non-degradable nature, regardless of their chemical form. This calls for the development of efficient and low-cost effluent treatment and metal recuperation technologies for contaminated waste water, not only because regulatory limits need to be met but also because the waste itself can be a resource for certain precious metals. Biosorption is a general property of living and dead biomass to rapidly bind and abiotically concentrate inorganic or organic compounds from even very diluted aqueous solutions. As a specific term, biosorption is a method that utilizes materials of biological origin – biosorbents formulated from non-living biomass - for the removal of target substances from aqueous solutions. Recent research on biosorption provides a solid understanding of the mechanism underlying microbial biosorption of heavy metals and related elements. This book gathers review articles analyzing current

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views on the mechanism and (bio)chemistry of biosorption, the performance of bacterial, fungal and algal biomass, and the practical aspects of biosorbent preparation and engineering. It also reviews the physico-chemical evaluations of biosorbents and modelling of the process as well as the importance of biosorption during heavy metal removal using living cells. It is a reference work for scientists, environmental safety engineers and R&D specialists who wish to further promote biosorption research and use the accumulated knowledge to develop and build industrial applications of biosorption in heavy metal separation technologies.

Footbridge Vibration Design presents new approaches, numerical tools and experimental tools for assessing and controlling pedestrian effects. Moreover, it includes a number of reference cases dealing with design and control. Focussed on the translation of these findings into practical recommendations, guidelines, codes and design tools for the design of new footbridges, it aims to set a standard for footbridge design. This book is intended for civil and mechanical engineers working on footbridges or related infrastructural projects.

Development of the Visual System presents a selection of current studies that clearly illustrate principles of visual system development. These range from retinal development in fish and frogs to the effects of abnormal visual experience

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on the primary visual cortex of the cat. The book is unique in addressing four specific and fundamental aspects of development: cell lineage and cell fate, specificity and targeting of axons, specification of visual cortex, and correlates of the critical period. Encompassing technical advances in cellular and molecular biology and in video imaging and microscopy, contributions in each of these areas provide new information at the cellular and molecular levels to complement the now classic descriptions of visual development previously available at the level of neural systems. Dominic Man-Kit Lam is Director of The Center for Biotechnology and Professor of Biotechnology, Cell Biology, and Ophthalmology at Baylor College of Medicine. Carla J. Shatz is Professor of Neurobiology at Stanford University School of Medicine. Contributors: Karen L. Allendoerfer. David M. Altshuler. Antonella Antonini. Seymour Benzer. Edward M. Callaway. Constance L. Cepko. Hollis T. Cline. Max S. Cynader. N. W. Daw. Scott E. Fraser. K. Fox. Eckhard Friauf. Anirvan Ghosh. R. W. Guillery. William A. Harris. Christine E. Holt. Lawrence C. Katz. Susan McConnell. Pamela A. Raymond. Thomas A. Reh. Carla J. Shatz. Michael P. Stryker. Claudia A. O. Stuermer. Mriganka Sur. David L. Turner. T. N. Wiesel.

A lamb asks the ice, sun, cloud, rain, earth, and grass who is the strongest one of all and reaches a surprising conclusion.

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PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

This book is the memoirs of American Soldiers in the Vietnam war spending most of their time tiring to stay alive. As young men just coming of age facing their struggle within to find the courage to fight another day yet all the while thinking that they just wanted to come home.

The Handbook of Nutrition, Diet and the Eye is the first book to thoroughly address common features and etiological factors in how dietary and nutritional factors affect the eye. The ocular system is perhaps one of the least studied organs in diet and nutrition, yet the consequences of vision loss can be devastating. One of the biggest contributors to complete vision loss in the western hemisphere is diabetes, precipitated by metabolic syndrome. In some developing countries, micronutrient deficiencies are major contributory factors to impaired vision. However, there are a range of ocular defects that have either their origin in nutritional deficiencies or excess or have been shown to respond favorably to nutritional components. The eye from the cornea to the retina may be affected by nutritional components. Effects may be physiological or molecular.

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This book represents essential reading for nutritionists, dietitians, optometrists, ophthalmologists, opticians, endocrinologists, and other clinicians and researchers interested in eye health and vision in general. Saves clinicians and researchers time in quickly accessing the very latest details on a broad range of nutrition, ocular health, and disease issues Provides a common language for nutritionists, nutrition researchers, optometrists, and ophthalmologists to discuss how dietary and nutritional factors, and related diseases and syndromes affect the eye Preclinical, clinical, and population studies will help nutritionists, dietitians, and clinicians map out key areas for research and further clinical recommendations

This second edition expands on the previous edition with new chapters that are suitable for newcomers, as well as more detailed chapters that cover protein stability and storage, avoiding proteolysis during chromatography, protein quantitation methods including immuno-qPCR, and the challenges that scale-up of production poses to the investigator. Many of the chapters also discuss generation and purification of recombinant proteins, recombinant antibody production, and the tagging of proteins as a means to enhance their solubility and simplify their purification on an individual scale or in high-throughput systems. This book also provides readers with chapters that describe not just the more

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commonly used methods, but also recently developed approaches such as proteomic/mass spectrometric techniques and Lectin-based affinity chromatography. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and thorough, *Protein Chromatography: Methods and Protocols, Second Edition* is a valuable resource for anyone who is interested in the field of protein chromatography.

Handbook of Respiratory Care, Third Edition is included in the 2015 edition of the essential collection of Doody's Core Titles. *Handbook of Respiratory Care, Third Edition* of this comprehensive resource compiles a wide variety of data relevant to the care of patients with respiratory disorders as well as current research in pulmonary physiology. Data from many sources in the fields of medicine, pharmacology, physics, mathematics, and engineering are brought together in this handy reference. This valuable, time-saving resource provides concise, accurate data not found in other textbooks. *Handbook of Respiratory Care* serves as reference for multiple topics such as commonly and not commonly used equations in pulmonary, cardiovascular and respiratory care. It also provides

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information on commonly used scores in research as well as the methods and equations used to compute them."

This highly successful textbook has been comprehensively revised for two main reasons: to bring the book up-to-date and make it compatible with BS8110 1985; and to take into account the increasing use made of microcomputers in civil engineering. An important chapter on microcomputer applications has been added.

"Highly recommended' by the Bulletin of the London Mathematical Society, this book offers a comprehensive, self-contained treatment of group rings. The subject involves the intersection of two essentially different disciplines, group theory and ring theory. The Bulletin of the American Mathematical Society hailed this treatment as 'a majestic account,' proclaiming it "encyclopedic and lucid." 1985 edition"--

The signals are everywhere that our planet is experiencing significant climate change. It is clear that we need to reduce the emissions of carbon dioxide and other greenhouse gases from our atmosphere if we want to avoid greatly increased risk of damage from climate change. Aggressively pursuing a program of emissions abatement or mitigation will show results over a timescale of many decades. How do we actively remove carbon dioxide from the atmosphere to make a bigger difference more quickly? As one of a two-book report, this volume of Climate Intervention discusses CDR, the carbon dioxide removal of greenhouse gas emissions from the atmosphere and sequestration of it in perpetuity. Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration introduces possible CDR approaches and then discusses them in depth. Land management practices, such as low-till agriculture,

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reforestation and afforestation, ocean iron fertilization, and land-and-ocean-based accelerated weathering, could amplify the rates of processes that are already occurring as part of the natural carbon cycle. Other CDR approaches, such as bioenergy with carbon capture and sequestration, direct air capture and sequestration, and traditional carbon capture and sequestration, seek to capture CO₂ from the atmosphere and dispose of it by pumping it underground at high pressure. This book looks at the pros and cons of these options and estimates possible rates of removal and total amounts that might be removed via these methods. With whatever portfolio of technologies the transition is achieved, eliminating the carbon dioxide emissions from the global energy and transportation systems will pose an enormous technical, economic, and social challenge that will likely take decades of concerted effort to achieve. *Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration* will help to better understand the potential cost and performance of CDR strategies to inform debate and decision making as we work to stabilize and reduce atmospheric concentrations of carbon dioxide.

This book is a compilation of some of the most remarkable contributions made by scientists currently working in Latin America to the understanding of virus biology, the pathogenesis of virus-related diseases, virus epidemiology, vaccine trials and antivirals development. In addition to recognizing the many fine virologists working in Latin America, *Human Virology in Latin America* also discusses both the state-of-the-art research and the current challenges that are being faced in the region, in hopes of inspiring young scientists worldwide to become eminent virologists.

This book presents the complete formulation of a new advanced discretization meshless

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technique: the Natural Neighbour Radial Point Interpolation Method (NNRPIM). In addition, two of the most popular meshless methods, the EFGM and the RPIM, are fully presented. Being a truly meshless method, the major advantages of the NNRPIM over the FEM and other meshless methods, are the remeshing flexibility and the higher accuracy of the obtained variable field. Using the natural neighbour concept, the NNRPIM permits to determine organically the influence-domain, resembling the cellulae natural behaviour. This innovation permits the analysis of convex boundaries and extremely irregular meshes, which is an advantage in the biomechanical analysis, with no extra computational effort associated. This volume shows how to extend the NNRPIM to the bone tissue remodelling analysis, expecting to contribute with new numerical tools and strategies in order to permit a more efficient numerical biomechanical analysis.

Heterocycles feature widely in natural products, agrochemicals, pharmaceuticals and dyes, and their synthesis is of great interest to synthetic chemists in both academia and industry. The contributions of recent applications of new methodologies in C–H activation, photoredox chemistry, cross-coupling strategies, borrowing hydrogen catalysis, multicomponent and solvent-free reactions, regio- and stereoselective syntheses, as well as other new, attractive approaches for the construction of heterocyclic scaffolds are of great interest. This Special Issue is dedicated to featuring the latest research that is ongoing in the field of heterocyclic synthesis. It is expected that most submissions will focus on five- and six-membered oxygen and nitrogen-containing heterocycles, but structures incorporating other rings/heteroatoms will also be considered. Original research (communications, full papers and reviews) that discusses innovative methodologies for assembling heterocycles with potential application in

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materials, catalysis and medicine are therefore welcome.

The idea that the adult brain of mammals can generate new neurons has only recently been accepted by the scientific community, and research in this exciting area is now in full swing. Bringing together leading researchers in the field of adult neurogenesis, the 30 chapters in this monograph provide a valuable overview of this emerging field and lay the groundwork for future studies. Adult Neurogenesis includes discussions on neural stem cell biology; methods and models for studying adult neurogenesis; physiological and molecular processes and their control; related neurological diseases; and comparisons of neurogenesis in humans, birds, fish, and invertebrates. It will be of interest to all researchers in neurobiology as well as those in the medical field, as it has implications for understanding depression, epilepsy, and other psychiatric disorders.

The Reverse Transcriptase (RT) of Human Immunodeficiency Virus Type 1 (HIV-1) arguably ranks amongst one of the most extensively studied retroviral enzymes. Heterologous expression and purification of HIV-1 RT in the early eighties, approval of the first nucleoside analogue RT inhibitor (NRTI) in 1987, discovery of resistance to RT inhibitors, approval of the first non-nucleoside analogue RT inhibitor (NNRTI) in 1996 and the various crystal structures of RT with and without bound substrate(s) and/or inhibitors represent only a few of the important milestones that describe the a bench-to-bedside success in the continuing effort to combat HIV-1 infection and its consequences. Nucleoside and nonnucleoside RT inhibitors remain important components in frequently used drug regimens to treat the infection. RT inhibitors also

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play important roles in recently validated strategies to prevent transmission of the virus. The relevance of HIV-1 RT as a drug target has simultaneously triggered interest in basic research studies aimed at providing a more detailed understanding of interactions between proteins, nucleic acids, and small molecule ligands in general terms. In light of the ever-growing knowledge on structure and function of HIV-1 RT, this enzyme serves as a valuable “model system” in efforts to develop novel experimental tools and to explain biochemical processes. This monograph is designed to provide an overview of important aspects in past and current HIV-1 RT research, with focus on mechanistic aspects and translation of knowledge into drug discovery and development. The first section includes chapters with emphasis placed on the coordination of the RT-associated DNA polymerase and ribonuclease H (RNase H) activities. The second covers mechanisms of action and future perspectives associated with NRTIs and NNRTIs, while the third section includes chapters focusing on novel strategies to target the RT enzyme. Chapters of the final part are intended to discuss mechanisms involved in HIV variability and the development of drug resistance. We hope that these contributions will stimulate interest, and encourage research aimed at the development of novel RT inhibitors. The lack of bona fide RNase H inhibitors with potent antiviral activity provides an example for challenges and opportunities in the field. A catalogue of postmarks used on mail posted at congresses, exhibitions, shows etc, and for anniversaries from 2004-2013.

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Just as the circle number π or the Euler constant e determines mathematics, fundamental constants of nature define the scales of the natural sciences. This book presents a new perspective by means of a few axioms and compares the resulting validity with experimental data. By the axiomatic approach Sommerfeld's mysterious fine-structure constant and Dirac's cosmic number are fixed as pure number constants. Thanks to these number constants, it is possible to calculate the value for the anomalous magnetic-moment of the electron in a simple way compared to QED calculations. With the same number constants it is also possible to calculate masses, partial lifetimes, magnetic-moments or charge radii of fundamental particles. The expressions used for the calculations, with few exceptions, yield values within the experimental error limits of the Particle Data Group. The author shows that the introduced number constants give even better predictions than the complicated QED calculations of today's doctrine. In the first part only experimental data from the literature for checking the postulates are used. In the second part the author explains electrical transport measurements with emergent behaviour, which were carried out in a professional environment.

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