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Engineering Polymer Systems for Improved Drug Delivery
Computer Organization & Architecture 7e
ADMET for Medicinal Chemists
Topological Methods in Hydrodynamics
Transportation Planning Handbook
BIM Design
Solar Cell Array Design Handbook
Microanalysis of Solids
Methods for Measuring Greenhouse Gas Balances and Evaluating Mitigation Options
in Smallholder Agriculture
Permanent Magnet Motor Technology
The Dynamic Loss of Earth's Radiation Belts
Handbook of Discrete and Combinatorial Mathematics
The Role of Topology in Materials
Frontiers in Crystalline Matter
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Engineering Polymer Systems for Improved Drug Delivery Pearson Education India

This book provides standards and guidelines for quantifying greenhouse gas emissions and removals in smallholder agricultural systems and comparing options for climate change mitigation based on emission reductions and livelihood trade-offs. Globally, agriculture is directly responsible for about 11% of annual greenhouse gas (GHG) emissions and induces an additional 17% through land use change, mostly in developing countries. Farms in the developing countries of sub-Saharan Africa and Asia are predominately managed by smallholders, with 80% of land holdings smaller than ten hectares. However, little to no information exists on greenhouse gas emissions and mitigation potentials in smallholder agriculture. Greenhouse gas measurements in agriculture are expensive, time consuming, and error prone, challenges only exacerbated by the heterogeneity of smallholder systems and landscapes. Concerns over methodological rigor, measurement costs, and the diversity of approaches, coupled with the demand for robust information suggest it is germane for the scientific community to establish standards of measurements for quantifying GHG emissions from smallholder agriculture. Standard guidelines for use by scientists, development organizations will help generate reliable data on emissions baselines and allow rigorous comparisons of mitigation options. The guidelines described in this book, developed by the CGIAR Research Program on Climate Change, Agriculture,

and Food Security (CCAFS) and partners, are intended to inform anyone conducting field measurements of agricultural greenhouse gas sources and sinks, especially to develop IPCC Tier 2 emission factors or to compare mitigation options in smallholder systems.

Computer Organization & Architecture 7e Springer

The Dynamic Loss of Earth's Radiation Belts: From Loss in the Magnetosphere to Particle Precipitation in the Atmosphere presents a timely review of data from various explorative missions, including the Van Allen Probes, the Magnetospheric Multiscale Mission (which aims to determine magnetopause losses), the completion of four BARREL balloon campaigns, and several CubeSat missions focusing on precipitation losses. This is the first book in the area to include a focus on loss, and not just acceleration and radial transport. Bringing together two communities, the book includes contributions from experts with knowledge in both precipitation mechanisms and the effects on the atmosphere. There is a direct link between what gets lost in the magnetospheric radiation environment and the energy deposited in the layers of our atmosphere. Very recently, NASA's Living With a Star program identified a new, targeted research topic that addresses this question, highlighting the timeliness of this precise science. The Dynamic Loss of Earth's Radiation Belts brings together scientists from the space and atmospheric science communities to examine both the causes and effects of particle loss in the magnetosphere. Examines both the causes and effects of particle loss in the magnetosphere from multiple perspectives Presents interdisciplinary content that bridges the

gap, through communication and collaboration, between the magnetospheric and atmospheric communities Fills a gap in the literature by focusing on loss in the radiation belt, which is especially timely based on data from the Van Allen Probes, the Magnetospheric Multiscale Mission, and other projects Includes contributions from various experts in the field that is organized and collated by a clear-and-consistent editorial team

ADMET for Medicinal Chemists John Wiley & Sons

Polymers have played a critical role in the rational design and application of drug delivery systems that increase the efficacy and reduce the toxicity of new and conventional therapeutics. Beginning with an introduction to the fundamentals of drug delivery, Engineering Polymer Systems for Improved Drug Delivery explores traditional drug delivery techniques as well as emerging advanced drug delivery techniques. By reviewing many types of polymeric drug delivery systems, and including key points, worked examples and homework problems, this book will serve as a guide to for specialists and non-specialists as well as a graduate level text for drug delivery courses.

Topological Methods in Hydrodynamics CRC Press

This book comprehensively reviews the state of the art in millimeter-wave antennas, traces important recent developments and provides information on a wide range of antenna configurations and applications. While fundamental theoretical aspects are discussed whenever necessary, the book primarily focuses on design principles and concepts, manufacture, measurement techniques, and practical results. Each of the various antenna

types scalable to millimeter-wave dimensions is considered individually, with coverage of leaky-wave and surface-wave antennas, printed antennas, integrated antennas, and reflector and lens systems. The final two chapters address the subject from a systems perspective, providing an overview of supporting circuitry and examining in detail diverse millimeter-wave applications, including high-speed wireless communications, radio astronomy, and radar. The vast amount of information now available on millimeter-wave systems can be daunting for researchers and designers entering the field. This book offers readers essential guidance, helping them to gain a thorough understanding based on the most recent research findings and serving as a sound basis for informed decision-making.

Transportation Planning Handbook Springer Science & Business Media

The importance of permanent magnet (PM) motor technology and its impact on electromechanical drives has grown exponentially since the publication of the bestselling second edition. The PM brushless motor market has grown considerably faster than the overall motion control market. This rapid growth makes it essential for electrical and electromechanical engineers and students to stay up-to-date on developments in modern electrical motors and drives, including their control, simulation, and CAD. Reflecting innovations in the development of PM motors for electromechanical drives, Permanent Magnet Motor Technology: Design and Applications, Third Edition demonstrates the construction of PM motor drives and supplies ready-to-implement solutions to common roadblocks along the way. This edition

supplies fundamental equations and calculations for determining and evaluating system performance, efficiency, reliability, and cost. It explores modern computer-aided design of PM motors, including the finite element approach, and explains how to select PM motors to meet the specific requirements of electrical drives. The numerous examples, models, and diagrams provided in each chapter facilitate a lucid understanding of motor operations and characteristics. This 3rd edition of a bestselling reference has been thoroughly revised to include:

- Chapters on high speed motors and micromotors
- Advances in permanent magnet motor technology
- Additional numerical examples and illustrations
- An increased effort to bridge the gap between theory and industrial applications
- Modified research results

The growing global trend toward energy conservation makes it quite possible that the era of the PM brushless motor drive is just around the corner. This reference book will give engineers, researchers, and graduate-level students the comprehensive understanding required to develop the breakthroughs that will push this exciting technology to the forefront.

BIM Design Springer Nature

This book systematically describes the most widely used techniques for the microanalysis of the physical, structural, and compositional properties of solids. Covering electron beams, ion beams, photon beams, and acoustic waves, it will provide physicists, materials scientists, electrical engineers, chemists, and their students with a comprehensive reference source.

Solar Cell Array Design Handbook

Addison-Wesley Professional

Handbook of Discrete and Combinatorial

Mathematics provides a comprehensive reference volume for mathematicians, computer scientists, engineers, as well as students and reference librarians. The material is presented so that key information can be located and used quickly and easily. Each chapter includes a glossary. Individual topics are covered in sections and subsections within chapters, each of which is organized into clearly identifiable parts: definitions, facts, and examples. Examples are provided to illustrate some of the key definitions, facts, and algorithms. Some curious and entertaining facts and puzzles are also included. Readers will also find an extensive collection of biographies. This second edition is a major revision. It includes extensive additions and updates. Since the first edition appeared in 1999, many new discoveries have been made and new areas have grown in importance, which are covered in this edition.

Microanalysis of Solids John Wiley & Sons

Whip spiders (Amblypygi) can be large and terrifying animals with strong, raptorial pedipalps and long antenniform first legs that can produce a span of as much as 60 cm. Others are small and scarcely span 5 cm. They all lead a secretive nocturnal life and are extremely dangerous to other arthropods and small vertebrates. In contrast to spiders and scorpions, they are of no commercial, economic or medical importance and they are difficult to study in the field because of their nocturnal habits, possible reasons why they have been greatly neglected until recently, by scientists and naturalists. Whip spiders represent an old group that dates back to the Carboniferous period. Their partly primitive and partly derived morphological characters and habits make the study of these animals

interesting, while observation of their behaviour greatly increases our knowledge and understanding of arachnids in general. In this book the author describes their morphology and systematics, their life history, their fascinating sensory biology, their complex mating dances and reproductive biology, and their ecology and distribution. Thus he has made a significant contribution to a better understanding of the morphology and biology of the Arachnida as a whole. *Whip Spiders* is an outstanding contribution to science and it will be of interest for anyone with an interest in Arachnida and for those keeping and breeding spiders.

Methods for Measuring Greenhouse Gas Balances and Evaluating Mitigation Options in Smallholder Agriculture Academic Press

Fluid dynamics is fundamental to our understanding of the atmosphere and oceans. Although many of the same principles of fluid dynamics apply to both the atmosphere and oceans, textbooks tend to concentrate on the atmosphere, the ocean, or the theory of geophysical fluid dynamics (GFD). This textbook provides a comprehensive unified treatment of atmospheric and oceanic fluid dynamics. The book introduces the fundamentals of geophysical fluid dynamics, including rotation and stratification, vorticity and potential vorticity, and scaling and approximations. It discusses baroclinic and barotropic instabilities, wave-mean flow interactions and turbulence, and the general circulation of the atmosphere and ocean. Student problems and exercises are included at the end of each chapter. *Atmospheric and Oceanic Fluid Dynamics: Fundamentals and Large-Scale Circulation* will be an invaluable

graduate textbook on advanced courses in GFD, meteorology, atmospheric science and oceanography, and an excellent review volume for researchers. Additional resources are available at www.cambridge.org/9780521849692. *Permanent Magnet Motor Technology* Springer

For much of the past 60 years, the U.S. research community dominated the discovery of new crystalline materials and the growth of large single crystals, placing the country at the forefront of fundamental advances in condensed-matter sciences and fueling the development of many of the new technologies at the core of U.S. economic growth. The opportunities offered by future developments in this field remain as promising as the achievements of the past. However, the past 20 years have seen a substantial deterioration in the United States' capability to pursue those opportunities at a time when several European and Asian countries have significantly increased investments in developing their own capacities in these areas. This book seeks both to set out the challenges and opportunities facing those who discover new crystalline materials and grow large crystals and to chart a way for the United States to reinvigorate its efforts and thereby return to a position of leadership in this field.

The Dynamic Loss of Earth's

Radiation Belts John Wiley & Sons

A gentle introduction to genetic algorithms. Genetic algorithms revisited: mathematical foundations. Computer implementation of a genetic algorithm. Some applications of genetic algorithms. Advanced operators and techniques in genetic search. Introduction to genetics-based machine learning. Applications of

genetics-based machine learning. A look back, a glance ahead. A review of combinatorics and elementary probability. Pascal with random number generation for fortran, basic, and cobol programmers. A simple genetic algorithm (SGA) in pascal. A simple classifier system(SCS) in pascal. Partition coefficient transforms for problem-coding analysis.

Handbook of Discrete and Combinatorial Mathematics Springer Science & Business Media

This volume is a collection of research papers devoted to the study of relationships between knot theory and the foundations of mathematics, physics, chemistry, biology and psychology. Included are reprints of the work of Lord Kelvin (Sir William Thomson) on the 19th century theory of vortex atoms, reprints of modern papers on knotted flux in physics and in fluid dynamics and knotted wormholes in general relativity. It also includes papers on Witten's approach to knots via quantum field theory and applications of this approach to quantum gravity and the Ising model in three dimensions. Other papers discuss the topology of RNA folding in relation to invariants of graphs and Vassiliev invariants, the entanglement structures of polymers, the synthesis of molecular Mobius strips and knotted molecules. The book begins with an article on the applications of knot theory to the foundations of mathematics and ends with an article on topology and visual perception. This volume will be of immense interest to all workers interested in new possibilities in the uses of knots and knot theory.

The Role of Topology in Materials
Springer

This book provides an introductory-level exploration of geophysical fluid

dynamics (GFD), the principles governing air and water flows on large terrestrial scales. Physical principles are illustrated with the aid of the simplest existing models, and the computer methods are shown in juxtaposition with the equations to which they apply. It explores contemporary topics of climate dynamics and equatorial dynamics, including the Greenhouse Effect, global warming, and the El Nino Southern Oscillation. Combines both physical and numerical aspects of geophysical fluid dynamics into a single affordable volume Explores contemporary topics such as the Greenhouse Effect, global warming and the El Nino Southern Oscillation Biographical and historical notes at the ends of chapters trace the intellectual development of the field Recipient of the 2010 Wernaers Prize, awarded each year by the National Fund for Scientific Research of Belgium (FNR-FNRS). Frontiers in Crystalline Matter John Wiley & Sons

This open access book presents established methods of structural health monitoring (SHM) and discusses their technological merit in the current aerospace environment. While the aerospace industry aims for weight reduction to improve fuel efficiency, reduce environmental impact, and to decrease maintenance time and operating costs, aircraft structures are often designed and built heavier than required in order to accommodate unpredictable failure. A way to overcome this approach is the use of SHM systems to detect the presence of defects. This book covers all major contemporary aerospace-relevant SHM methods, from the basics of each method to the various defect types that SHM is required to detect to discussion of signal processing developments alongside considerations

of aerospace safety requirements. It will be of interest to professionals in industry and academic researchers alike, as well as engineering students. This article/publication is based upon work from COST Action CA18203 (ODIN - <http://odin-cost.com/>), supported by COST (European Cooperation in Science and Technology). COST (European Cooperation in Science and Technology) is a funding agency for research and innovation networks. Our Actions help connect research initiatives across Europe and enable scientists to grow their ideas by sharing them with their peers. This boosts their research, career and innovation.

Cambridge Scientific Biochemistry Abstracts National Academies Press Building information modelling (BIM) is revolutionising building design and construction. For architects, BIM has the potential to optimise their creativity while reducing risk in the design and construction process, thus giving them a more significant role in the building process. This book demonstrates how innovative firms are using BIM technologies to move design away from the utilitarian problems of construction, engaging them in a stunning new future in the built environment. Whereas recent books about BIM have tended to favour case-study analyses or instruction on the use of specific software, *BIM Design* highlights how day-to-day design operations are shaped by the increasingly generative and collaborative aspects of these new tools. BIM strategies are described as operations that can enhance design rather than simply make it more efficient. Thus this book focuses on the specific creative uses of information modelling at the operational level, including the creative development of parametric geometries

and generative design, the evaluation of environmental performance and the simulation and scheduling of construction/fabrication operations. This book also engages BIM's pragmatic efficiencies such as the conflict checking of building systems and the creation of bills of quantities for costing; and in so doing it demonstrates how BIM can make such activities collaborative. Throughout, projects are used to illustrate the creative application of BIM at a variety of scales. These buildings showcase work by firms executing projects all over the world: SHoP Architects and Construction (New York), Morphosis (Los Angeles), Populous (London), GRO Architects (New York), Reiser + Umemoto (New York), Gensler (Shanghai) and UNStudio (Amsterdam). *Managing Nuclear Operations* Frontiers Media SA

This handbook is the only up-to-date, A to Z compilation of commercial and research zeolites. The volume presents complete patent-researched reference information on structural data, synthesis parameters, and characteristic properties. For each known zeolite there is an entry on all organics which crystallize a given structure, physical data, and applications. Data is presented in tabular or graphical form with minimal text, and a cross-referenced literature review is provided.

Elsevier

The first monograph to treat topological, group-theoretic, and geometric problems of ideal hydrodynamics and magnetohydrodynamics from a unified point of view. It describes the necessary preliminary notions both in hydrodynamics and pure mathematics with numerous examples and figures. The book is accessible to graduates as well as pure and applied mathematicians

working in hydrodynamics, Lie groups, dynamical systems, and differential geometry.

Wireless Sensor Networks Springer

This book presents the most important advances in the class of topological materials and discusses the topological characterization, modeling and metrology of materials. Further, it addresses currently emerging characterization techniques such as optical and acoustic, vibrational spectroscopy (Brillouin, infrared, Raman), electronic, magnetic, fluorescence correlation imaging, laser lithography, small angle X-ray and neutron scattering and other techniques, including site-selective nanoprobe. The book analyzes the topological aspects to identify and quantify these effects in terms of topology metrics. The topological materials are ubiquitous and range from (i) de novo nanoscale allotropes of carbons in various forms such as nanotubes, nanorings, nanohorns, nanowalls, peapods, graphene, etc. to (ii) metallo-organic frameworks, (iii) helical gold nanotubes, (iv) Möbius conjugated polymers, (v) block co-polymers, (vi) supramolecular assemblies, to (vii) a variety of biological and soft-matter systems, e.g. foams and cellular materials, vesicles of different shapes and genera, biomimetic membranes, and filaments, (viii) topological insulators and topological superconductors, (ix) a variety of Dirac materials including Dirac and Weyl semimetals, as well as (x) knots and network structures. Topological databases and algorithms to model such materials have been also established in this book. In order to understand and properly characterize these important emergent materials, it is necessary to go far beyond the traditional paradigm of

microscopic structure–property–function relationships to a paradigm that explicitly incorporates topological aspects from the outset to characterize and/or predict the physical properties and currently untapped functionalities of these advanced materials. Simulation and modeling tools including quantum chemistry, molecular dynamics, 3D visualization and tomography are also indispensable. These concepts have found applications in condensed matter physics, materials science and engineering, physical chemistry and biophysics, and the various topics covered in the book have potential applications in connection with novel synthesis techniques, sensing and catalysis. As such, the book offers a unique resource for graduate students and researchers alike.

Handbook Of Molecular Sieves

Springer

The Definitive Guide to Building Firewalls with Linux As the security challenges facing Linux system and network administrators have grown, the security tools and techniques available to them have improved dramatically. In *Linux® Firewalls, Fourth Edition*, long-time Linux security expert Steve Suehring has revamped his definitive Linux firewall guide to cover the important advances in Linux security. An indispensable working resource for every Linux administrator concerned with security, this guide presents comprehensive coverage of both iptables and nftables. Building on the solid networking and firewalling foundation in previous editions, it also adds coverage of modern tools and techniques for detecting exploits and intrusions, and much more. Distribution neutral throughout, this edition is fully updated for today's Linux kernels, and includes current code examples and

support scripts for Red Hat/Fedora, Ubuntu, and Debian implementations. If you're a Linux professional, it will help you establish an understanding of security for any Linux system, and for networks of all sizes, from home to enterprise. Inside, you'll find just what you need to install, configure, and update a Linux firewall running either iptables or nftables Migrate to nftables, or take advantage of the latest iptables enhancements Manage complex multiple firewall configurations Create, debug, and optimize firewall rules Use Samhain and other tools to protect filesystem integrity, monitor networks, and detect intrusions Harden systems against port scanning and other attacks Uncover exploits such as rootkits and backdoors with chkrootkit
The Design Method Springer Science & Business Media

This volume, a joint project of the Brookings Institution and Harvard University's Center for Science and International Affairs, analyzes the dynamics of nuclear operations and the vital policy problems they pose. Twenty-two experts, ranging from a former commander in chief of the Strategic Air Command to an expert in radar technology, discuss peace-time safety and control of nuclear weapons worldwide; and the means for terminating nuclear war before it escalates to all-out exchanges. They also describe command posts, warning sensors, communication technologies, locking devices to prevent unauthorized explosion of nuclear weapons, selection of nuclear targets, and the exercise of political authority over nuclear operations. ISBN 0-8157-1313-4 (pbk.) : \$18.95.

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