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JIMENA PHILLIPS

Overcoming Students' Misconceptions in Science Routledge

This book is intended for undergraduate students and all those interested in mathematics. Its goal is to give an easy introduction to the concept of a transformation group using examples from different areas of mathematics. The warm-up of the first two chapters includes a discussion of algebraic operations on points in the plane, and of Euclidean plane movements. Then the notions of a transformation group and of an abstract group are introduced. Group actions, orbits, and invariants constitute the subject of the next chapter. The book concludes with an elementary exposition of the basic ideas of Sophus Lie about symmetries of differential equations. The book contains plenty of figures, as well as many exercises with hints and solutions, which help the reader to master the material.

Reunion Planner Springer Nature
Membrane computing is an unconventional model of computation associated with a new computing paradigm. The field of membrane

computing was initiated in 1998 by the author of this book; it is a branch of natural computing inspired by the structure and functioning of the living cell and devises distributed parallel computing models in the form of membrane systems. This book is the first monograph surveying the new field in a systematic and coherent way. It presents the central notions and results: the main classes of P systems, the main results about their computational power and efficiency, a complete bibliography, and a series of open problems and research topics.

Practical Environmental Analysis Springer Nature

This cross-disciplinary business book develops insight into the management of businesses operating in various economic sectors that take a proactive approach to the triple dimension of sustainability (economic, social and environmental), positioning itself as a key reference for both academics and practitioners in the wide area of business management. The concept of sustainability is today at the heart of international policies and debate, and plays a key role in deep changes to the organizational models of companies operating in a wide range of sectors of

economic activity. In particular, this book aims to gain a deeper understanding of how stakeholder engagement can contribute to value co-creation both in the company and along the supply chain, and what distinguishes the differing involvement of stakeholders, in particular between public involvement and stakeholder participation. Each chapter of this book presents different modalities of stakeholder involvement and develops the concept of value co-creation from organizational and marketing perspectives. This book is recommended reading for those interested in the fields of stakeholder engagement and theory, sustainability, business studies, and sustainable development.

Control Technologies for Emerging Micro and Nanoscale Systems

Springer Science & Business Media

Drug discovery increasingly requires a common understanding by researchers of the many and diverse factors that go into the making of new medicines. The scientist entering the field will immediately face important issues for which his education may not have prepared him: project teams, patent law, consultants, target product profiles, industry trends, Gantt charts, target validation, pharmacokinetics, proteomics, phenotype assays, biomarkers, and many other unfamiliar topics for which a basic understanding must somehow be obtained. Even the more experienced scientist can find it frustratingly difficult to get an overview of the many factors involved in modern drug discovery and often only after years of exploring does a whole and integrated picture emerge in the mind of the researcher. *Real World Drug Discovery: A Chemist's Guide to Biotech and Pharmaceutical Research* presents this

kind of map of the landscape of drug discovery. In a single, readable volume it outlines processes and explains essential concepts and terms for the recent science graduate wondering what to expect in pharma or biotech, the medicinal chemist seeking a broader and more timely understanding of the industry, or the contractor or collaborator whose understanding of the commercial drug discovery process could increase the value of his contribution to it. Interviews with well-known experts in many of the fields involved, giving insightful comments from authorities on many of the sub-disciplines important to cutting edge drug discovery. Helpful suggestions gleaned from years of experience in biotech and pharma, which represents a repository drug discovery "lore" not previously available in any book.

"Periodic Table of Drugs" listing current top-selling drugs arranged by target and laid out so that structural similarities and differences are plain and clear.

Extensive use of diagrams to illustrate concepts like biotech startup models, preteomic profiling for target identification, Gantt charts for project planning, etc.

Electronic Systems and Intelligent Computing

Now Publishers
For advanced undergraduate/ graduate-level courses in Automation, Production Systems, and Computer-Integrated Manufacturing. This exploration of the technical and engineering aspects of automated production systems provides the most advanced, comprehensive, and balanced coverage of the subject of any text on the market. It covers all the major cutting-edge technologies of production automation and material handling, and how these technologies are used to construct modern

manufacturing systems.

Antibiotics and Urinary Tract Infections

Springer Science & Business Media

To commemorate the 50th anniversary of the discovery of the megalithic necropolis of Petit- Chasseur in Sion (Valais, Switzerland), an international conference was organised from the 27th to the 29th of October 2011 in Sion. This book constitutes the conference proceedings.

Herbal Medicine in India Archaeopress Publishing Ltd

This book provides a thorough overview of cutting-edge research on electronics applications relevant to industry, the environment, and society at large. It covers a broad spectrum of application domains, from automotive to space and from health to security, while devoting special attention to the use of embedded devices and sensors for imaging, communication and control. The book is based on the 2020 ApplePies Conference, held online in November 2020, which brought together researchers and stakeholders to consider the most significant current trends in the field of applied electronics and to debate visions for the future. Areas addressed by the conference included information communication technology; biotechnology and biomedical imaging; space; secure, clean and efficient energy; the environment; and smart, green and integrated transport. As electronics technology continues to develop apace, constantly meeting previously unthinkable targets, further attention needs to be directed toward the electronics applications and the development of systems that facilitate human activities. This book, written by industrial and academic professionals, represents a valuable contribution in this endeavor.

Permanent Magnet Motor

Technology Elsevier

Data fusion is a rapidly developing technology which involves the combination of information supplied by several NDT (Non-Destructive Testing) sensors to provide a more complete and understandable picture of structural integrity. This text is the first to be devoted exclusively to the concept of multisensor integration and data fusion applied to NDT. The advantages of this methodology are widely acknowledged and the author presents an excellent introduction to data fusion processes. Problems are approached progressively through detailed case studies, offering practical guidance for those wishing to develop and explore NDT data fusion further. This book will prove invaluable to inspectors, students and researchers concerned with NDT signal processing measurements and testing. It shows the great value and major benefits which can be achieved by implementing multisensor data fusion, not only in NDT but also in any discipline where measurements and testing are key activities.

Industrial Ceramics Genealogical Publishing Com

This book should be of interest to statistics lecturers who want ready-made data sets complete with notes for teaching.

Applications in Electronics Pervading Industry, Environment and Society Springer Nature

This book discusses the importance of identifying and addressing misconceptions for the successful teaching and learning of science across all levels of science education from elementary school to high school. It suggests teaching approaches based on research data to address students'

common misconceptions. Detailed descriptions of how these instructional approaches can be incorporated into teaching and learning science are also included. The science education literature extensively documents the findings of studies about students' misconceptions or alternative conceptions about various science concepts. Furthermore, some of the studies involve systematic approaches to not only creating but also implementing instructional programs to reduce the incidence of these misconceptions among high school science students. These studies, however, are largely unavailable to classroom practitioners, partly because they are usually found in various science education journals that teachers have no time to refer to or are not readily available to them. In response, this book offers an essential and easily accessible guide.

Optical Measurement of Surface Topography CRC Press

Plants, being sessile and autotrophic in nature, must cope with challenging environmental aberrations and therefore have evolved various responsive or defensive mechanisms including stress sensing mechanisms, antioxidant system, signaling pathways, secondary metabolites biosynthesis, and other defensive pathways among which accumulation of osmolytes or osmoprotectants is an important phenomenon. Osmolytes with organic chemical nature termed as compatible solutes are highly soluble compounds with no net charge at physiological pH and nontoxic at higher concentrations to plant cells. Compatible solutes in plants involve compounds like proline, glycine betaine, polyamines, trehalose, raffinose family oligosaccharides, fructans, gamma aminobutyric acid (GABA), and

sugar alcohols playing structural, physiological, biochemical, and signaling roles during normal plant growth and development. The current and sustaining problems of climate change and increasing world population has challenged global food security. To feed more than 9 billion, the estimated population by 2050, the yield of major crops needs to be increased 1.1–1.3% per year, which is mainly restricted by the yield ceiling. A major factor limiting the crop yield is the changing global environmental conditions which includes drought, salinity and extreme temperatures and are responsible for a reduction of crop yield in almost all the crop plants. This condition may worsen with a decrease in agricultural land or the loss of potential crop yields by 70%. Therefore, it is a challenging task for agricultural scientists to develop tolerant/resistant varieties against abiotic stresses. The development of stress tolerant plant varieties through conventional breeding is very slow due to complex multigene traits. Engineering compatible solutes biosynthesis by deciphering the mechanism behind the abiotic tolerance or accumulation in plants cell is a potential emerging strategy to mitigate adverse effects of abiotic stresses and increase global crop production. However, detailed information on compatible solutes, including their sensing/signaling, biosynthesis, regulatory components, underlying biochemical mechanisms, crosstalk with other signaling pathways, and transgenic development have not been compiled into a single resource. Our book intends to fill this unmet need, with insight from recent advances in compatible solutes research on agriculturally important crop plants.

Advances in Communication,

Network, and Computing Springer
Nature

This volume continues the tradition formed in *Nanotechnology in Catalysis 1* and *2*. As with those books, this one is based upon an ACS symposium. Some of the most illustrious names in heterogeneous catalysis are among the contributors. The book covers: Design, synthesis, and control of catalysts at nanoscale; understanding of catalytic reaction at nanometer scale; characterization of nanomaterials as catalysts; nanoparticle metal or metal oxides catalysts; nanomaterials as catalyst supports; new catalytic applications of nanomaterials.

A Handbook of Small Data Sets Springer

Non-destructive testing (NDT) systems can generate incomplete, incorrect or conflicting information about a flaw or a defect. Therefore, the use of more than one NDT system is usually required for accurate defect detection and/or quantification. In addition to a reduction in inspection time, important cost savings could be achieved if a data fusion process is developed to combine signals from multisensor systems for manual and remotely operated inspections. This gathering of data from multiple sources and an efficient processing of information help in decision making, reduce signal uncertainty and increase the overall performance of a non-destructive examination. This book gathers, for the first time, essays from leading NDT experts involved in data fusion. It explores the concept of data fusion by providing a comprehensive review and analysis of the applications of NDT data fusion. This publication concentrates on NDT data fusion for industrial applications and highlights progress and applications in the field of data fusion in

areas ranging from materials testing in the aerospace industry to medical applications. Each chapter contains a specific case study with a theoretical part but also presents experimental results from a practical point of view. The book should be considered more as a pragmatic introduction to the applications of NDT data fusion rather than a rigorous basis for theoretical studies.

Teaching Skills Springer

The volume includes selected and reviewed papers from the 3rd Conference on Ignition Systems for Gasoline Engines in Berlin in November 2016. Experts from industry and universities discuss in their papers the challenges to ignition systems in providing reliable, precise ignition in the light of a wide spread in mixture quality, high exhaust gas recirculation rates and high cylinder pressures. Classic spark plug ignition as well as alternative ignition systems are assessed, the ignition system being one of the key technologies to further optimizing the gasoline engine.

Transformation Groups for Beginners
Elsevier

This book provides a systematic and focused study of the various aspects of twin support vector machines (TWSVM) and related developments for classification and regression. In addition to presenting most of the basic models of TWSVM and twin support vector regression (TWSVR) available in the literature, it also discusses the important and challenging applications of this new machine learning methodology. A chapter on "Additional Topics" has been included to discuss kernel optimization and support tensor machine topics, which are comparatively new but have great potential in applications. It is

primarily written for graduate students and researchers in the area of machine learning and related topics in computer science, mathematics, electrical engineering, management science and finance.

S-Centered Radicals Frontiers Media SA

Recent advances in information and communication technologies, embedded systems and sensor networks have generated significant research activity in the development of so-called cyber-physical systems. An example of a large network of cyber-physical systems is a smart city with intelligent infrastructures for supporting the environment, energy and water distribution, transportation, telecommunication, health care, home automation, and so on. From a systems point of view, safety, reliability and fault tolerance become key challenges in designing cyber-physical systems. One of the major issues is detecting and correcting faults in the sensors that form a critical part of these networks and systems. For example, if two sensors should provide similar information, how do you know which one is at fault should their readings suddenly greatly differ? Sensor Fault Diagnosis addresses all the issues in sensor fault detection and isolation. It provides a clear tutorial on the challenges and models that can be used to address them. It describes, in detail, the requirements for modeling the systems, designing the architecture, detecting faults, isolating those faults, and presents learning techniques for enhancing performance. This monograph will appeal to all researchers and students working on large sensor networks and systems.

Twin Support Vector Machines Royal Society of Chemistry

This research topic focuses on

epigenetic components of PTSD. Epigenetic mechanisms are a class of molecular mechanisms by which environmental influences, including stress, can interact with the genome to have long-term consequences for brain plasticity and behavior. Articles herein include empirical reports and reviews that link stress and trauma with epigenetic alterations in humans and animal models of early- or later-life stress. Themes present throughout the collection include: DNA methylation is a useful biomarker of stress and treatment outcome in humans; epigenetic programming of stress-sensitive physiological systems early in development confers an enhanced risk on disease development upon re-exposure to trauma or stress; and, long-lived fear memories are associated with epigenetic alterations in fear memory and extinction brain circuitry.

Nanotechnology in Catalysis 3 Wiley-Blackwell

This book is a printed edition of the Special Issue "Antibiotics and Urinary Tract Infections" that was published in Antibiotics

DARPA Technical Accomplishments Springer Nature

This book provides a thorough overview of cutting-edge research on electronics applications relevant to industry, the environment, and society at large. It covers a broad spectrum of application domains, from automotive to space and from health to security, while devoting special attention to the use of embedded devices and sensors for imaging, communication and control. The book is based on the 2019 ApplePies Conference, held in Pisa, Italy in September 2019, which brought together researchers and stakeholders to consider the most significant current

trends in the field of applied electronics and to debate visions for the future. Areas addressed by the conference included information communication technology; biotechnology and biomedical imaging; space; secure, clean and efficient energy; the environment; and smart, green and integrated transport. As electronics technology continues to develop apace, constantly meeting previously unthinkable targets, further attention needs to be directed toward the electronics applications and the development of systems that facilitate human activities. This book,

written by industrial and academic professionals, represents a valuable contribution in this endeavor.

Compatible Solutes Engineering for Crop Plants Facing Climate Change

American Mathematical Soc.

Teaching Skills will help the teacher educators get acquainted with effective teaching techniques especially focusing on pedagogical teaching skill. It will help students learn the principles and concepts of instructional aids like audiovisual aids. It also gives a brief outline of micro teaching, lesson planning, unit planning and self-instructional materials.