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*Mathematical Methods in Engineering* - Kenan Taş 2018-08-21

This book collects chapters dealing with some of the theoretical aspects needed to properly discuss the dynamics of complex engineering systems. The book illustrates advanced theoretical development and new techniques designed to better solve problems within the nonlinear dynamical systems. Topics covered in this volume include advances on fixed point results on partial metric spaces, localization of the spectral expansions associated with the partial differential operators, irregularity in graphs and inverse problems, Hyers-Ulam and Hyers-Ulam-Rassias stability for integro-differential equations, fixed point results for mixed multivalued mappings of Feng-Liu type on Mb-metric spaces, and the limit q-Bernstein operators, analytical investigation on the fractional diffusion absorption equation.

**Fasciolosis, 2nd Edition** - John P. Dalton 2021-12-14

Fasciolosis is a major global infection of livestock causing both huge losses to the agricultural community and affecting human health as a food-borne disease. Fully updated throughout, this new edition continues to cover the life cycle, biology, and development of the parasite; clinical pathology, immunology, diagnosis and vaccine development; and emergence, cause and mechanisms of drug resistance. It reviews the temperate liver fluke *Fasciola hepatica*, together with molecular,

biochemical, control, and epidemiological aspects of the tropical liver fluke *F. gigantica*. Many fundamental advances have taken place in the last two decades, but of particular importance has been the mapping of the draft genome of *Fasciola*. In addition, comprehensive advances in transcriptomics, proteomics and glycomics have been made, and the book therefore pays particular attention to these developments with the addition of brand-new chapters. Also covering the impact these parasites have had on the global human population, their distribution and their ecology, this book provides a comprehensive and accessible resource for scientists, researchers and students of medical and veterinary parasitology.

*Thanatia: The Destiny of the Earth's Mineral Resources* - Antonio Valero Capilla 2014-08-18

Is Gaia becoming Thanatia, a resource exhausted planet? For how long can our high-tech society be sustained in the light of declining mineral ore grades, heavy dependence on un-recycled critical metals and accelerated material dispersion? These are all root causes of future disruptions that need to be addressed today. This book presents a cradle-to-cradle view of the Earth's abiotic resources through a novel and rigorous approach based on the Second Law of Thermodynamics: heat dissipates and materials deteriorate and disperse. Quality is irreversibly

lost. This allows for the assessment of such depletion and can be used to estimate the year where production of the main mineral commodities could reach its zenith. By postulating Thanatia, one acquires a sense of destiny and a concern for a unified global management of the planet's abiotic resource endowment. The book covers the core aspects of geology, geochemistry, mining, metallurgy, economics, the environment, thermodynamics and thermochemistry. It is supported by comprehensive databases related to mineral resources, including detailed compositions of the Earth's layers, thermochemical properties of over 300 substances, historical energy and mineral resource inventories, energy consumption and environmental impacts in the mining and metallurgical sector and world recycling rates of commodities. Contents: The Threads: Minerals, Economy and Thermodynamics: The Depletion of Non-Renewable Abiotic Resources Economic versus Thermodynamic Accounting From Thermodynamics to Economics and Ecology Physical Geonomics: A Cradle-Grave-Cradle Approach for Mineral Depletion Assessment Over the Rainbow: From Nature to Industry: The Geochemistry of the Earth The Resources of the Earth An Introduction to Mining and Metallurgy Metallurgy of Key Minerals Down the Rainbow: From Grave to Cradle: Thermodynamics of Mineral Resources Thanatia and the Crepuscular Earth Model The Exergy of the Earth and Its Mineral Resources The Exergy Replacement Costs of Mineral Wealth The Exergy Evolution of Mineral Wealth Tying the Rainbows: Towards a Rational Management of Resources: Recycling Solutions The Challenge of Resource Depletion The Principles of Resource Efficiency Epilogue Readership: Thermodynamicists, geologists, economists, policy makers, and mining, environmental and chemical engineers. Keywords: Exergy; Mineral Resources; Depletion; Hubbert Peak; Gibbs Free Energy; Mineralogical Composition of the Earth; Thermodynamics Reviews: "This is an exhaustive treatment of the subject with numerous tables of the baseline data and discussions going from basic thermodynamics to economics and social sciences. It is an essential read for any scientist who is concerned with resource evaluation and how we can best manage these assets and continue to live

on an Earth in which we appreciate the service provided by the resource and thus avoid Thanatia in defence of Gaia." John Ludden Executive Director, British Geological Survey "'Thanatia' presents a refreshing way of analysing the run-down of our mineral inheritance ... To serious students of the resource problem the numerous tables in 'Thanatia' are useful because they are thought-provoking as much as for the numerical data. 'Thanatia' is a big book, with a wealth of data and background material on the minerals industry, representing many years of intensive investigation and analysis." Jane H Hodgkinson & Frank D Stacey CSIRO, Australia Authors of *The Earth as a Cradle for Life* "The unusual title of the book Thanatia (death in Greek) leads its readers to understand what sustainability really means and to quantify the problem of mineral depletion using both disciplines thermodynamics and economics." Ph. Vieillard Director of Research C.N.R.S., Poitiers, France *Reforming America's Outdated Energy Tax Code* - United States. Congress. Senate. Committee on Finance 2015

[Biomimetic Research for Architecture and Building Construction](#) - Jan Knippers 2016-12-19

This book comprises a first survey of the Collaborative Research Center SFB-TRR 141 'Biological Design and Integrative Structures - Analysis, Simulation and Implementation in Architecture', funded by the Deutsche Forschungsgemeinschaft since October 2014. The SFB-TRR 141 provides a collaborative framework for architects and engineers from the University of Stuttgart, biologists and physicists from the University of Freiburg and geoscientists and evolutionary biologists from the University of Tübingen. The program is conceptualized as a dialogue between the disciplines and is based on the belief that that biomimetic research has the potential to lead everyone involved to new findings far beyond his individual reach. During the last few decades, computational methods have been introduced into all fields of science and technology. In architecture, they enable the geometric differentiation of building components and allow the fabrication of porous or fibre-based materials with locally adjusted physical and chemical properties. Recent

developments in simulation technologies focus on multi-scale models and the interplay of mechanical phenomena at various hierarchical levels. In the natural sciences, a multitude of quantitative methods covering diverse hierarchical levels have been introduced. These advances in computational methods have opened a new era in biomimetics: local differentiation at various scales, the main feature of natural constructions, can for the first time not only be analysed, but to a certain extent also be transferred to building construction. Computational methodologies enable the direct exchange of information between fields of science that, until now, have been widely separated. As a result they lead to a new approach to biomimetic research, which, hopefully, contributes to a more sustainable development in architecture and building construction.

Optimizing Miscanthus for the Sustainable Bioeconomy: From Genes to Products - Emily A. Heaton 2018-10-05

In this Research Topic we report advances in fundamental and applied aspects of the perennial C4 bioenergy crop Miscanthus (Miscanthus spp.) and its role in mitigating climate change as part of the bioeconomy. Miscanthus is extremely well suited for bioenergy, biofuel and bioproduct production over a wide geographic area including Europe and North America as well as its native Asia. Miscanthus offers a unique perspective within plant science: the challenge is to domesticate this novel crop for diverse environments and uses while simultaneously developing sustainable value chains to displace fossil fuels and contribute to climate change mitigation. Contributions to this Research Topic were offered from leading Miscanthus researchers from different parts of the world. We accepted 16 articles from 95 authors, which have generated 21,161 views at March 26 2018. Nine of the articles are the output of the European FP7 OPTIMISC project and describe multiple experiments investigating a common set of Miscanthus genotypes in Europe and Asia. These papers are complemented by seven additional articles from global authors, providing a comprehensive analysis of the state of the art of Miscanthus research and application.

**The Philosophy of Mathematics Education** - Paul Ernest 2016-07-15

This survey provides a brief and selective overview of research in the philosophy of mathematics education. It asks what makes up the philosophy of mathematics education, what it means, what questions it asks and answers, and what is its overall importance and use? It provides overviews of critical mathematics education, and the most relevant modern movements in the philosophy of mathematics. A case study is provided of an emerging research tradition in one country. This is the Hermeneutic strand of research in the philosophy of mathematics education in Brazil. This illustrates one orientation towards research inquiry in the philosophy of mathematics education. It is part of a broader practice of 'philosophical archaeology': the uncovering of hidden assumptions and buried ideologies within the concepts and methods of research and practice in mathematics education. An extensive bibliography is also included.

**Governing the EU in an Age of Division** - Dalibor Rohac 2022-11-11

Few international organizations embody the idea of historical progress as strongly as the European Union (EU). This book shows how Europe's heterogeneity makes the EU unsuitable to be a vehicle of progress and political unity and makes the case for a more restrained, polycentric approach towards European integration.

**Petroleum Refining** - Mark J. Kaiser 2019-09-11

For four decades, Petroleum Refining has guided thousands of readers toward a reliable understanding of the field, and through the years has become the standard text in many schools and universities around the world offering petroleum refining classes, for self-study, training, and as a reference for industry professionals. The sixth edition of this perennial bestseller continues in the tradition set by Jim Gary as the most modern and authoritative guide in the field. Updated and expanded to reflect new technologies, methods, and topics, the book includes new discussion on the business and economics of refining, cost estimation and complexity, crude origins and properties, fuel specifications, and updates on technology, process units, and catalysts. The first half of the book is written for a general audience to introduce the primary economic and market characteristics of the industry and to describe the inputs and

outputs of refining. Most of this material is new to this edition and can be read independently or in parallel with the rest of the text. In the second half of the book, a technical review of the main process units of a refinery is provided, beginning with distillation and covering each of the primary conversion and treatment processes. Much of this material was reorganized, updated, and rewritten with greater emphasis on reaction chemistry and the role of catalysis in applications. *Petroleum Refining: Technology, Economics, and Markets* is a book written for users, the practitioners of refining, and all those who want to learn more about the field.

**Blumberg on Corporate Groups** - Phillip I. Blumberg 2005-01-01

This new five volume "Second Edition" of "Blumberg on

**Cherries** - Jose Quero-Garcia 2017-07-12

Sweet and sour cherries (*Prunus avium* and *Prunus cerasus*) are important fruit crops for which demand is high and growing. A significant number of new varieties, rootstocks and training systems have been released or developed in recent years in order to improve the efficiency and profitability of cherry orchards. *Cherries: Botany, Production and Uses* covers the genetics, ecophysiology, production, protection and uses of cherries. Presenting up-to-date scientific data and applied information, this book is invaluable for researchers, teachers and all professionals working in the cherries value chain.

**Introduction to Court Interpreting** - Holly Mikkelson 2016-12-08

An Introduction to Court Interpreting has been carefully designed to be comprehensive, accessible and globally applicable. Starting with the history of the profession and covering the key topics from the role of the interpreter in the judiciary setting to ethical principles and techniques of interpreting, this text has been thoroughly revised. The new material covers: remote interpreting and police interpreting; role-playing scenarios including the Postville case of 2008; updated and expanded resources. In addition, the extensive practical exercises and suggestions for further reading help to ensure this remains the essential introductory textbook for all courses on court interpreting

**Crust-Mantle and Lithosphere-Asthenosphere Boundaries** -

Gianluca Bianchini 2017-05-10

This 10-chapter volume encompasses contributions from a wide spectrum of Earth science disciplines, including geophysics, geodynamics, geochemistry, and petrology, to provide an overview of the nature and evolution of the crust-mantle and lithosphere-asthenosphere boundaries in different tectonic settings, combining studies that exploit different types of data and interpretative approaches. The integration of geochemical, geophysical, and geodynamic data sets and their interpretation provides a state-of-the-art summary of current understanding, and will serve as a blueprint for future research activities.

Navier-Stokes Equations - Grzegorz Łukaszewicz 2016-04-12

This volume is devoted to the study of the Navier-Stokes equations, providing a comprehensive reference for a range of applications: from advanced undergraduate students to engineers and professional mathematicians involved in research on fluid mechanics, dynamical systems, and mathematical modeling. Equipped with only a basic knowledge of calculus, functional analysis, and partial differential equations, the reader is introduced to the concept and applications of the Navier-Stokes equations through a series of fully self-contained chapters. Including lively illustrations that complement and elucidate the text, and a collection of exercises at the end of each chapter, this book is an indispensable, accessible, classroom-tested tool for teaching and understanding the Navier-Stokes equations. Incompressible Navier-Stokes equations describe the dynamic motion (flow) of incompressible fluid, the unknowns being the velocity and pressure as functions of location (space) and time variables. A solution to these equations predicts the behavior of the fluid, assuming knowledge of its initial and boundary states. These equations are one of the most important models of mathematical physics: although they have been a subject of vivid research for more than 150 years, there are still many open problems due to the nature of nonlinearity present in the equations. The nonlinear convective term present in the equations leads to phenomena such as eddy flows and turbulence. In particular, the

question of solution regularity for three-dimensional problem was appointed by Clay Institute as one of the Millennium Problems, the key problems in modern mathematics. The problem remains challenging and fascinating for mathematicians, and the applications of the Navier–Stokes equations range from aerodynamics (drag and lift forces), to the design of watercraft and hydroelectric power plants, to medical applications such as modeling the flow of blood in the circulatory system.

*Performance and Participation Outcomes for Individuals With Neurological Conditions* - Naomi Josman 2020-12-03

This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: [frontiersin.org/about/contact](http://frontiersin.org/about/contact).

*Corruption in the Global Era* - Lorenzo Pasculli 2019-04-01

Corruption is a globalising phenomenon. Not only is it rapidly expanding globally but, more significantly, its causes, its means and forms of perpetration and its effects are more and more rooted in the many developments of globalisation. The Panama Papers, the FIFA scandals and the Petrobras case in Brazil are just a few examples of the rapid and alarming globalisation of corrupt practices in recent years. The lack of empirical evidence on corrupt schemes and a still imperfect dialogue between different disciplinary areas and between academic and practitioners hinder our knowledge of corruption as a global phenomenon and slow down the adoption of appropriate policy responses. *Corruption in the Global Era* seeks to establish an interdisciplinary dialogue between theory and practice and between different disciplines and to provide a better understanding of the multifaceted aspects of corruption as a global phenomenon. This book gathers top experts across various fields of both the academic and the

professional world – including criminology, economics, finance, journalism, law, legal ethics and philosophy of law – to analyze the causes and the forms of manifestation of corruption in the global context and in various sectors (sports, health care, finance, the press etc.) from the most disparate perspectives. The theoretical frameworks elaborated by academics are here complemented by precious insider accounts on corruption in different areas, such as banking and finance and the press. The expanding links between corrupt practices and other global crimes, such as money laundering, fraud and human trafficking, are also explored. This book is an important resource to researchers, academics and students in the fields of law, criminology, sociology, economics and ethics, as well as professionals, particularly solicitors, barristers, businessmen and public servants.

*International Plant Proteomics Organization (INPPO) World Congress 2014* - Joshua L. Heazlewood 2017-02-08

The field of proteomics has advanced considerably over the past two decades. The ability to delve deeper into an organism's proteome, identify an array of post-translational modifications and profile differentially abundant proteins has greatly expanded the utilization of proteomics. Improvements to instrumentation in conjunction with the development of these reproducible workflows have driven the adoption and application of this technology by a wider research community. However, the full potential of proteomics is far from being fully exploited in plant biology and its translational application needs to be further developed. In 2011, a group of plant proteomic researchers established the International Plant Proteomics Organization (INPPO) to advance the utilization of this technology in plants as well as to create a way for plant proteomics researchers to interact, collaborate and exchange ideas. The INPPO conducted its inaugural world congress in mid 2014 at the University of Hamburg (Germany). Plant proteomic researchers from around the world were in attendance and the event marked the maturation of this research community. The Research Topic captures the opinions, ideas and research discussed at the congress and encapsulates the approaches that were being applied in plant proteomics.

**Jury Instructions in Commercial Litigation** - Ronald W. Eades  
2022-04-01

Commercial litigation presents a unique set of challenges for the trial attorney. Often complex and highly technical, it strains the ability of the attorney to present - and for the jury to understand - the issues in dispute. *Jury Instructions in Commercial Litigation* helps you overcome these obstacles, providing a comprehensive collection of jury instructions successfully given by judges and followed by juries in actual commercial trials. Each instruction explains clearly the issues for the layman, translating complex legal concepts into everyday language.

*Postharvest Pathology of Fresh Horticultural Produce* - Lluís Palou  
2019-10-28

Optimal distribution of fresh horticultural products entails prolonging their freshness and nutritional quality as long as possible after harvest. A major limitation to their marketing is decay after harvest, which is caused primarily by fungal pathogens. *Postharvest Pathology of Fresh Horticultural Produce* provides a comprehensive resource of information about the biology and control of postharvest diseases of many fresh horticultural products, citing sources from appropriate literature of any age, rather than only the most recent. The etiology and symptoms of postharvest diseases and the biology of postharvest pathogens are reviewed by leading experts, who are familiar with many of world's most popular fresh fruits and vegetables and the diseases that affect them. Key aspects related to infection and epidemiology, methods to minimize postharvest decay losses, including use of conventional fungicides and alternative management strategies, harvest and handling practices, and other aspects are described for the most significant temperate, subtropical, and tropical fruits as well as fruit-like vegetables and leafy vegetables. Features: Provides comprehensive academic and practical reviews of postharvest diseases of fresh fruits and vegetables Discusses the economic importance, etiology, and epidemiology of the most significant postharvest diseases Includes quality color plates that allow the practical identification of disease symptoms Explains practical postharvest disease management actions, including the use of

conventional fungicides and alternatives to their use The authors summarize a massive quantity of published information, and often apply their own considerable practical experience to identify and interpret the most significant information. This book is a valuable and comprehensive resource for industry professionals, academics, educators, students, consultants, pest control advisors, regulatory personnel, and others interested in this subject.

**Early Childhood Education** - Kimberly A. Gordon Biddle 2013-01-02  
*Early Childhood Education: Becoming a Professional* is an inspiring introduction to the world of early childhood education, preparing the teachers of tomorrow to reach their full potential in their schools and communities. Written by a diverse and experienced author team (Kimberly A. Gordon Biddle, Ana Garcia-Nevarez, Wanda J. Roundtree-Henderson, and Alicia Valero-Kerrick), this text engages readers to connect contemporary educational and developmental theory and research to developmentally appropriate practices and applications that are easily implemented in the classroom. In response to today's ever-changing educational environment, the text focuses on both the importance of taking personal and professional responsibility, as well as today's issues in diversity—from supporting children with exceptionalities to supporting children and families in broader cultural contexts.

**Biological Chirality** - Gyula Palyi 2019-11-06  
*Biological Chirality* describes this occurrence, its history, and early research around the topic. The work covers analytical methods for observing the phenomenon, providing current techniques and practice and discussing the asymmetric morphology of certain living organisms, such as the position of the heart and liver in humans and the exceptions to biological homochirality seen in D-Amino Acids. In addition, it explores the requirement of enantioselectivity prepared pharmaceuticals to address enantioselectivities biomolecules, a major challenge in today's organic chemistry. Finally, the work considers the possible origin of biological homochirality, as well as the outlook for future research in this area. Describes the history of biological chirality research, its possible

origins, and future exploration areas Discusses asymmetric exceptions in morphology and D-Amino Acids Explores the critical implications of enantioselective biomolecules for preparative organic chemistry with a goal of developing effective pharmaceuticals

**Kingdom of the Netherlands-Aruba** - International Monetary Fund  
2010-10-29

Aruba has an open economy with a history of stability-oriented macroeconomic policies. Adverse external shocks have led to a decline in tourism and disruption of oil refinery operations. Serious fiscal challenges need to be addressed and a fiscal adjustment program is needed to safeguard the sustainability of the public finances.

Expenditure cuts and the central bank's switch from a credit ceiling to an unremunerated reserves requirement as key policy tool is commended. The new monetary policy framework will likely increase the challenges to prudential regulation and supervision.

*Conductive Polymers* - Ze Zhang 2018-09-03

This book is dedicated to the field of conductive polymers, focusing on electrical interactions with biological systems. It addresses the use of conductive polymers as the conducting interface for electrical communications with the biological system, both in vitro and in vivo. It provides an overview on the chemistry and physics of conductive polymers, their useful characteristics as well as limitations, and technologies that apply conductive polymers for medical purposes. This groundbreaking resource addresses cytotoxicity and tissue compatibility of conductive polymers, the basics on electromagnetic fields, and commonly used experimental methods. Readers will also learn how cells are cultured in vitro with conductive polymers, and how conductive polymers and living tissues interact electrically. Throughout the contents, chapter authors emphasize the importance of conductive polymers in biomedical engineering and their potential applications in medicine.

**Frontiers in Materials: Rising Stars 2020** - Anastasiia O. Krushynska  
2021-07-08

The Frontiers in Materials Editorial Office team are delighted to present

the second edition of the "Rising Stars" article collection, "Frontiers in Materials: Rising Stars 2020", showcasing the high-quality work of internationally recognized researchers in the early stages of their independent careers. All Rising Star researchers featured within this collection were individually nominated by the Topic Editors in recognition of their potential to influence the future directions of their respective fields. The work presented here highlights the diversity of research performed across the entire breadth of the materials science and engineering field and presents advances in theory, experimentation, and methodology with applications for solving compelling problems. This Editorial features the corresponding author(s) of each paper published within this important collection, ordered by section alphabetically, highlighting them as the great researchers of the future. The Frontiers in Materials Editorial Office team would like to thank each researcher who contributed their work to this collection. We would also like to personally thank the Topic Editors for their exemplary leadership of this article collection; their strong support and passion for this important, community-driven collection has ensured its success and global impact.  
Emily Young Journal Development Manager

**Microbial Decontamination by Novel Technologies - Mechanisms and Application Concepts** - Alexander Mathys 2019-09-26

**Innovative Preservation Technology for the Fresh Fruit and Vegetables** - Bernardo Pace 2021-08-17

The preservation of freshness of fruits and vegetables until their consumption is the aim of many research activities. The quality losses of fresh fruit and vegetables during cold chain are frequently attributable to an inappropriate use of postharvest technologies. Moreover, especially when fresh produce is transported to distant markets, it is necessary to adopt proper storage solutions in order to preserve the initial quality. Nowadays, for each step of the supply chain (packing house, cold storage rooms, precooling center, refrigerate transport, and distribution), innovative preservation technologies are available that, alone or in combination, could preserve the fresh products in order to maintain the

principal quality and nutritional characteristics. In this Special Issue, these preservation technologies will be described, highlighting their effect on quality maintenance.

**Staff Oil Pipeline Handbook, Volume V-B, August 2014** - 2014

Land Reclamation and Restoration Strategies for Sustainable Development - Gouri Sankar Bhunia 2021-11-17

Land Reclamation and Restoration Strategies for Sustainable Development: Geospatial Technology Based Approach, Volume Ten covers spatial mapping, modeling and risk assessment in land hazards issues and sustainable management. Each section in the book explores state-of-art techniques using commercial, open source and statistical software for mapping and modeling, along with case studies that illustrate modern image processing techniques and computational algorithms. A special focus is given on recent trends in data mining techniques. This book will be of particular interest to students, researchers and professionals in the fields of earth science, applied geography, and those in the environmental sciences. Demonstrates a geoinformatics approach to data mining techniques, data analysis, modeling, risk assessment, visualization, and management strategies in different aspects of land use, hazards and reclamation Covers land contamination problems, including effects on agriculture, forestry, and coastal and wetland areas Suggests specific techniques of remediation Explores state-of-art techniques based on commercial, open source, and statistical software for mapping and modeling using modern image processing techniques and computational algorithm

**Open-Source Electronics Platforms** - Trung Dung Ngo 2019-05-20

Open-source electronics are becoming very popular, and are integrated with our daily educational and developmental activities. At present, the use open-source electronics for teaching science, technology, engineering, and mathematics (STEM) has become a global trend. Off-the-shelf embedded electronics such as Arduino- and Raspberry-compatible modules have been widely used for various applications, from do-it-yourself (DIY) to industrial projects. In addition to the growth of

open-source software platforms, open-source electronics play an important role in narrowing the gap between prototyping and product development. Indeed, the technological and social impacts of open-source electronics in teaching, research, and innovation have been widely recognized.

Neuromechanics and Control of Physical Behavior: from Experimental and Computational Formulations to Bio-inspired Technologies - Massimo Sartori 2019-08-15

The term "neuromechanics" defines an integrative approach that combines the neuromuscular control and the biomechanical aspects of physical behavior in humans and animals. Crucial to this approach is a detailed description and modeling of the interaction between the nervous system and the controlled biomechanical plant. Only then do we have the broader context within which to understand evolution, movement mechanics, neural control, energetics, disability and rehabilitation. In addition to enabling new basic science directions, understanding the interrelations between movement neural and mechanical function should also be leveraged for the development of personalized wearable technologies to augment or restore the motor capabilities of healthy or impaired individuals. Similarly, this understanding will empower us to revisit current approaches to the design and control of robotic and humanoid systems to produce truly versatile human-like physical behavior and adaptation in real-world environments. This Research Topic is therefore poised at an opportune moment to promote understanding of apparently disparate topics into a coherent focus.

**Federal Register** - 2016

**Approximate Computing Techniques** - Alberto Bosio 2022-06-10

This book serves as a single-source reference to the latest advances in Approximate Computing (AxC), a promising technique for increasing performance or reducing the cost and power consumption of a computing system. The authors discuss the different AxC design and validation techniques, and their integration. They also describe real AxC applications, spanning from mobile to high performance computing and



also safety-critical applications.

*Dairy in Human Health and Disease across the Lifespan* - Ronald Ross Watson 2017-06-19

*Dairy in Human Health and Disease across the Lifespan* addresses the contribution of milk to the human diet and health throughout the life span. This comprehensive book is divided into three sections and presents a balanced overview of dairy's impact on nutrition from infancy to adulthood. Summaries capture the most salient points of each chapter, and the book provides coverage of dairy as a functional food in health and disease. Presents various dairy products and their impact on health specific to various stages in the lifespan Provides information to identify which food and diet constituents should be used as dietary supplements based on modification of health and nutrition Incorporates contributions from an international team of authors with varying areas of expertise related to dairy and nutrition

**Continuous and Distributed Systems II** - Viktor A. Sadovnichiy 2015-06-04

As in the previous volume on the topic, the authors close the gap between abstract mathematical approaches, such as applied methods of modern algebra and analysis, fundamental and computational mechanics, nonautonomous and stochastic dynamical systems, on the one hand and practical applications in nonlinear mechanics, optimization, decision making theory and control theory on the other. Readers will also benefit from the presentation of modern mathematical modeling methods for the numerical solution of complicated engineering problems in biochemistry, geophysics, biology and climatology. This compilation will be of interest to mathematicians and engineers working at the interface of these fields. It presents selected works of the joint seminar series of Lomonosov Moscow State University and the Institute for Applied System Analysis at National Technical University of Ukraine "Kyiv Polytechnic Institute". The authors come from Brazil, Germany, France, Mexico, Spain, Poland, Russia, Ukraine and the USA.

**Texas Civil Procedure: Pre-Trial Litigation, 2014-2015** - William V. Dorsaneo III 2014-07-03

This coursebook explores both the practical and substantive aspects of Texas civil pre-trial litigation. The materials cover all aspects of the processing of a civil case up to the period immediately before trial. It addresses such issues as: • The attorney's relationship with the client (when to take a case, forming the contract, Interviewing and counseling the client); • When to file the suit (statutes of limitation and other pre-filing requirements); • Protecting the right to recover (emergency relief such as TROs, sequestration, garnishment, and attachment); • Deciding where to file the case (subject matter jurisdiction, personal jurisdiction, and venue); • Defining and shaping the case (pleading practices, joinder, and preclusion doctrines); • Obtaining relevant Information (scope of discovery and discovery devices); and • Non-trial resolutions (default, summary judgment, settlement, and alternative dispute resolution). All of the chapters have been updated to include new cases and changes in rules and statutes. In addition to cases and supplemental notes, Texas Civil Procedure: Pre-Trial Litigation includes sample pleadings and other documents to help students understand and apply the procedural rules. The text also includes thirty new sets of Practice Exercises--hypothetical problems that walk students through the application of the rules in increasingly complex situations. The eBook versions of this title feature links to Lexis Advance for further legal research options.

*Consideration of Abiotic Natural Resources in Life Cycle Assessments* - Mario Schmidt 2019-01-28

This book is a printed edition of the Special Issue "Consideration of Abiotic Natural Resources in Life Cycle Assessments" that was published in Resources

**Generation of Neurons and Their Integration in Pre-Existing Circuits in the Postnatal Brain: Signalling in Physiological and Regenerative Contexts** - Helena Mira 2020-09-03

This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics

unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: [frontiersin.org/about/contact](http://frontiersin.org/about/contact).

*Practical General Practice Nursing E-Book* - Marion Welsh 2021-06-29

Comprehensive coverage of evidence-based person-centred care  
Practical application for contemporary practice Perspectives and policies from all four countries of the UK

**Moody's Industrial Manual** - 1989

Covering New York, American & regional stock exchanges & international companies.

*Qualitative and Quantitative Analysis of Nonlinear Systems* - Michael Z. Zgurovsky 2017-07-11

Here, the authors present modern methods of analysis for nonlinear

systems which may occur in fields such as physics, chemistry, biology, or economics. They concentrate on the following topics, specific for such systems: (a) constructive existence results and regularity theorems for all weak solutions; (b) convergence results for solutions and their approximations; (c) uniform global behavior of solutions in time; and (d) pointwise behavior of solutions for autonomous problems with possible gaps by the phase variables. The general methodology for the investigation of dissipative dynamical systems with several applications including nonlinear parabolic equations of divergent form, nonlinear stochastic equations of parabolic type, unilateral problems, nonlinear PDEs on Riemannian manifolds with or without boundary, contact problems as well as particular examples is established. As such, the book is addressed to a wide circle of mathematical, mechanical and engineering readers.