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Finite-Dimensional Variational Inequalities and Complementarity Problems Jun 28 2022 This is part two of a two-volume work presenting a comprehensive treatment of the finite-dimensional variational inequality and complementarity problem. It details algorithms for solving finite dimensional variational inequalities and complementarity problems. Coverage includes abundant exercises as well as an extensive bibliography. The book will be an enduring reference on the subject and provide the foundation for its sustained growth.

The Genus Citrus Nov 21 2021 The Genus Citrus presents the enormous amount of new knowledge that has been generated in recent years on nearly all topics related to citrus. Beginning with an overview of the fundamental principles and understanding of citrus biology and behavior, the book provides a comprehensive view from Citrus evolution to current market importance. Reporting on new insights supported by the elucidation of the citrus genome sequence, it presents groundbreaking theories and fills in previous knowledge gaps. Because citrus is among the most difficult plants to improve through traditional breeding, citrus researchers, institutions and industries must quickly learn to adapt to new developments, knowledge and technologies to address the biological constraints of a unique fruit-tree such as citrus. Despite the challenges of working with citrus, tremendous progress has been made, mostly through advances in molecular biology and genomics. This book is valuable for all those involved with researching and advancing, producing, processing, and delivering citrus products. Includes the most current research on citrus genomic information Provides the first detailed description of citrus origin, a new proposal for citrus taxonomy, and a redefinition of the genus Citrus Details citrus challenges including climate change, global disease impacts, and plant improvement strategies

Railway Transport Planning and Managemen Dec 31 2019 Railway engineering is facing different and complex challenges due to the growing demand for travel, new technologies, and new mobility paradigms. All these issues require a clear understanding of the existing technologies, and it is crucial to identify the real opportunities that the current technological revolution may pose. As railway transportation planning processes change and pursue a multi-objective vision, diagnostic and maintenance issues are becoming even more crucial for overall system performances and alternative fuel solutions.

Use of Ozone Depleting Substances in Laboratories Apr 14 2021

The Politics of Autism Jun 04 2020 In the first book devoted exclusively to the contentious politics of autism, noted political scientist and public policy expert John J. Pitney, Jr., explains how autism has evolved into a heated political issue disputed by scientists, educators, social workers, and families. Nearly everything about autism is subject to debate and struggle, including its measurement and definition. Organizational attempts to deal with autism have resulted in not a single "autism policy," but a vast array of policies at the federal, state, and local levels, which often leave people with autism and their families frustrated and confused. Americans with

autism are citizens, friends, coworkers, sons, daughters, fathers, and mothers. No longer simply the objects of public policy, they are active participants in current policy debates. Pitney's fascinating look at how public policy is made and implemented offers networks of concerned parents, educators, and researchers a compass to navigate the current systems and hope for a path towards more regularized and effective policies for America's autism community.

Geographical Information System and Crime Mapping Jul 18 2021 Geographical Information System and Crime Mapping features a diverse array of Geographic Information System (GIS) applications in crime analysis, from general issues such as GIS as a communication process, interjurisdictional mapping and data sharing to specific applications in tracking serial killers and predicting violence-prone zones. It supports readers in developing and implementing crime mapping techniques. The distribution of crime is explained with reference to theories of human ecology, transport network, built environment, housing markets, and forms of urban management, including policing. Concepts are supported with relevant case studies and real-time crime data to illustrate concepts and applications of crime mapping. Aimed at senior undergraduate, graduate students, professionals in GIS, Crime Analysis, Spatial Analysis, Ergonomics and human factors, this book: Provides an update of GIS applications for crime mapping studies Highlights growing potential of GIS for crime mapping, monitoring, and reduction through developing and implementing crime mapping techniques Covers Operational Research, Spatial Regression model, Point Analysis and so forth Builds models helpful in police patrolling, surveillance and crime mapping from a technology perspective Includes a dedicated section on case studies including exercises and data samples

Understanding Ageing for Nurses and Therapists Jan 12 2021 This volume is a practical resource for all those responsible for caring for older people across health and social care. It provides a comprehensive and holistic approach helping nurses, therapists and social care professionals to better understand the impact of ageing upon the person and wider society. A unique feature of this text is the focus upon positive ageing and the attempt to dispel and challenge some of the myths, prejudices and negative attitudes that still prevail towards ageing and older people. A key objective of the book is to introduce practitioners to some of the neglected or under-addressed aspects of ageing such as spirituality, sexuality, and LGBT. Chapters are written in an engaging and interactive style and where appropriate draw upon case studies and scenarios to maximize engagement developing competence, by informing knowledge, attitudes and skills. The text introduces the practitioner to key dimensions of what it is to be a person, physically, psychologically, socially and spiritually and how these contribute to the ageing process and can enhance the quality of life of older people. Irrespective of whether one cares for older people in an acute hospital setting or domiciliary, home care, this text will be of relevance. The material and content transcend health and social care boundaries, providing valuable, contemporary evidence that can inform and shape practice. Above all this text will encourage reflection, dialogue and engagement with some fundamental aspects of ageing, challenging, attitudes, values and behaviour so that a more positive and balanced insight towards ageing is fostered. This book will ensure that self-awareness and professional practice are enriched and informed and the practitioner has a holistic understanding of ageing that will enable them to care for older people with compassion, dignity and respect.

Advanced Technologies, Systems, and Applications VI Jul 06 2020 This book presents the innovative and interdisciplinary application of advanced technologies. It includes the scientific outcomes and results of the conference 12th Day of Bosnian-Herzegovinian American Academy of Art and Sciences held in Mostar, Bosnia, and Herzegovina, June 24-27, 2021. The latest developments in various fields of engineering have been presented through various papers in civil engineering, mechanical engineering, computing, electrical and electronics engineering, and others. A new session, Sustainable Urban Development: Designing Smart, Inclusive and Resilient Cities, was organized, enabling experts in this field to exchange their knowledge and expertise.

Information Technology and Systems Aug 31 2022 This book is composed by the papers written in English and accepted for presentation and discussion at The 2022 International Conference on Information Technology & Systems (ICITS'22), held at Tecnológico de Costa Rica, in San Carlos, Costa Rica, between the 9th and the 11th of February 2022. ICIST is a global forum for researchers and practitioners to present and discuss recent findings and innovations, current trends, professional experiences and challenges of modern information technology and systems research, together with their technological development and applications. The main topics covered are: information and knowledge management; organizational models and information systems; software and systems modelling; software systems, architectures, applications and tools; multimedia systems and applications; computer networks, mobility and pervasive systems; intelligent and decision support systems; big data analytics and applications; human-computer interaction; ethics, computers & security; health informatics; information technologies in education, and Media, Applied Technology and Communication.

Japan's Peacekeeping at a Crossroads May 28 2022 This open access book examines why Japan discontinued its quarter-century history of troop contribution to UN Peacekeeping Operations (1992-2017). Japan had deployed its troops as UN peacekeepers since 1992, albeit under a constitutional limit on weapons use. Japan's peacekeepers began to focus on engineering work as its strength, while also trying to relax the constraints on weapons use, although to a minimal extent. In 2017, however, Japan suddenly withdrew its engineering corps from South Sudan, and has contributed no troops since then. Why? The book argues that Japan could not match the increasing "robustness" of recent peacekeeping operations and has begun to seek a new direction, such as capacity-building support.

Rebalancing Our Climate Jun 24 2019 "Over recent decades, a wide variety of studies and assessment reports has portrayed a stark picture of humanity's detrimental impacts on our planet's life and environmental health. Climate change is at the heart of many of these impacts. This cannot be allowed to continue, given the relentless human population growth and ever-expanding energy and resource consumption. We have but one planet, and its ecosystem services are essential to our survival. But the doomsday scenario can still be averted; humanity stands at a crossroads where it must take the route of sustainable behavior. Decisive action can still make a significant difference to climate change. This is humanity's greatest challenge. To have any chance of success, however, the time to act can be delayed no longer. Instead, it is right now: today is the future. This book documents a wealth of ways to adjust the trajectory of climate change. It outlines measures to drive massive reductions of greenhouse gas emissions, to remove greenhouse gases from the atmosphere, and to reflect part of the incoming energy from the Sun. For all measures, the book evaluates both advantages and disadvantages. Finally, it discusses the need to protect ourselves from impacts that have become inevitable already, and looks at how society may be driven to get the job done. In short, this book provides powerful facts and arguments to support informed choices"--

The Future of Education and Labor Aug 19 2021 This book explores the ways in which education impacts labor markets. Specifically,

the contributions in this book indicate that the future of labor is creative, socially aware and inter-disciplinary while identifying the changes and innovations needed in our educational systems to meet this demand. Due to an increasing automatization (robotic manufacturing), the character of labor and work in general will change dramatically in the near future. This will be the case not only in the western countries, but also in the larger emerging economies in Asia, for example China and India. While societal environments, economy and the character of labor are increasingly in a process of dramatic changes, the educational systems and the leading principles of research about labor and employment are not changing adequately. Cross-disciplinary (inter-disciplinary and trans-disciplinary) thinking and learning is not the main focus of our educational systems. Consequently, the systems of academic research follow and apply disciplinary or even sub-disciplinary strategies, avoiding cross-disciplinary research approaches, and not supporting inter-disciplinary academic career models. This book introduces such strategic models to better prepare the next generation of workers for the new knowledge economy, and the future of democratic societies.

RNA Delivery Function for Anticancer Therapeutics Apr 26 2022 This book presents an overview of the current status of translating the RNAi cancer therapeutics in the clinic, a brief description of the biological barriers in drug delivery, and the roles of imaging in aspects of administration route, systemic circulation, and cellular barriers for the clinical translation of RNAi cancer therapeutics, and with partial content for discussing the safety concerns. It then focuses on imaging-guided delivery of RNAi therapeutics in preclinical development, including the basic principles of different imaging modalities, and their advantages and limitations for biological imaging. With growing number of RNAi therapeutics entering the clinic, various imaging methods will play an important role in facilitating the translation of RNAi cancer therapeutics from bench to bedside. RNAi technique has become a powerful tool for basic research to selectively knock down gene expression in vitro and in vivo. Our scientific and industrial communities have started to develop RNAi therapeutics as the next class of drugs for treating a variety of genetic disorders, such as cancer and other diseases that are particularly hard to address with current treatment strategies. Key Features Provides insight into the current advances and hurdles of RNAi therapeutics. Accelerates RNAi, miRNAs, and siRNA drug development for cancer therapy from bench to bedside. Addresses various modifications and novel delivery strategies for miRNAs, piRNAs and siRNA delivery in anticancer therapeutics. Explores the need for the interaction of hematologists, cell biologists, immunologists, and material scientists in the development of novel cancer therapies. Describes the current status of clinical trials related to miRNA and siRNA-based cancer therapy Presents remaining issues that need to be overcome to establish successful therapies.

International Handbook of Mathematics Teacher Education: Volume 2 Jul 26 2019 Tools and Processes in Mathematics Teacher Education describes and analyze various promising tools and processes, from different perspectives, aimed at facilitating mathematics teacher learning/development. It provides insights of how mathematics teacher educators think about and approach their work with teachers.

Higher Education in the Arab World Dec 23 2021 This book examines the unsatisfactory situation in the Arab world where there is a pressing need to address poverty, unemployment, political instability, corruption, and the existential threat of climate change. The authors analyze the relationships between universities and governments in the Arab world, and make recommendations that will help develop intellectual capacity and thereby aid the economic and social transitions so desperately needed in all Arab countries. Countries aspiring to participate fully in the global knowledge economy require dynamic university sectors operating in concert with governments that actively promote high-quality education and research and foster innovation and entrepreneurship. Successful university-government relationships can be complex and are continually evolving.

Optical Waveguides Analysis and Design Jun 16 2021 This book offers readers a comprehensive, detailed analysis and treatment of optical waveguides (fiber, slab), an essential component of ultra-high bandwidth long, medium and short-haul telecommunication. The author describes an analysis scheme for optical waveguides that combines both geometric ray optics and Maxwell's equations-based classical electrodynamics. This unique approach enables readers to develop an intuitive understanding of this topic, starting with macro properties, e.g., V parameter of an optical fiber, and progressively refining the analysis to individual modes of propagation through an optical waveguide. An exhaustive set of diagrams highlight the key features of an optical waveguide property, such as acceptance angle, meridional and skew rays in an optical fiber, or signal attenuation and dispersion in an optical waveguide. The author also provides a set of ready-to-use, ANSI C executables (for both Linux and Windows) that enable the reader to e.g, determine the allowed propagation modes (even, odd TE TM) of a graded, step index optical fiber and a slab waveguide. Offers readers a single-source reference to the analysis and design of optical waveguides; Begins with macro-level analysis of the properties of optical waveguides and dives deeply into details in a step-by-step manner, enabling readers to develop an intuitive understanding; Includes C language executables, along with optical waveguide analysis and design examples to demonstrate their use in context.

Geometry of Deep Learning Jul 30 2022 The focus of this book is on providing students with insights into geometry that can help them understand deep learning from a unified perspective. Rather than describing deep learning as an implementation technique, as is usually the case in many existing deep learning books, here, deep learning is explained as an ultimate form of signal processing techniques that can be imagined. To support this claim, an overview of classical kernel machine learning approaches is presented, and their advantages and limitations are explained. Following a detailed explanation of the basic building blocks of deep neural networks from a biological and algorithmic point of view, the latest tools such as attention, normalization, Transformer, BERT, GPT-3, and others are described. Here, too, the focus is on the fact that in these heuristic approaches, there is an important, beautiful geometric structure behind the intuition that enables a systematic understanding. A unified geometric analysis to understand the working mechanism of deep learning from high-dimensional geometry is offered. Then, different forms of generative models like GAN, VAE, normalizing flows, optimal transport, and so on are described from a unified geometric perspective, showing that they actually come from statistical distance-minimization problems. Because this book contains up-to-date information from both a practical and theoretical point of view, it can be used as an advanced deep learning textbook in universities or as a reference source for researchers interested in acquiring the latest deep learning algorithms and their underlying principles. In addition, the book has been prepared for a codeshare course for both engineering and mathematics students, thus much of the content is interdisciplinary and will appeal to students from both disciplines.

Communication and Catastrophic Events Feb 10 2021 An authoritative compendium of new research findings and case studies in the application of communication theory during catastrophic events Communicating Science in Times of Crisis: Communication and

Catastrophic Events addresses the practical application and research implications of communication theory in the context of man-made and natural catastrophes. Bringing together contributions by leading experts in crisis management and strategic communication, this timely collection of resources links scientific issues with public policy while discussing the challenges and opportunities for using communication to manage extreme events in the evolving media landscape of the 21st century. In this second volume of the Wiley-Blackwell Communicating Science in Times of Crises series, 15 substantial chapters explore a varied range of catastrophic conditions, such as mass violence incidents, disease outbreaks, catastrophic mudslides, cascading and simultaneous disasters, extreme weather events, diffusion of misinformation during crises, students traveling internationally during a global health crisis, and more. Each chapter focuses on a particular issue or concern, revealing the difficult choices that confront academics and practitioners across communication disciplines and presenting original frameworks and models alongside ongoing research programs. Discusses approaches for balancing scientific findings with social and cultural issues Highlights the ability of legacy and digital media to facilitate science in mitigating the effects of adverse events Examines the ethical repercussions of communication during unfolding and unpredictable events Addresses the use of social media communication during a crisis and navigating an increasingly media-savvy society with multiple levels of science literacy Covers key theoretical and practical aspects of the associated fields of risk management and crisis management Available as a standalone book or as part of a two-volume set, Communicating Science in Times of Crisis: Communication and Catastrophic Events is essential reading for scholars, researchers, practitioners, and advanced students in the fields of crisis communication, risk and emergency management, disaster studies, policy management, social media communication, and healthcare communication.

Gender and Practice Apr 02 2020 In *Gender and Practice: Insights from the Field*, twelve chapters contribute to the creation of an accessible body of knowledge that looks to provide gender practitioners with examples of what works, and what doesn't, in the attainment of gender equality.

Poverty and the Poor in the World's Religious Traditions: Religious Responses to the Problem of Poverty Jan 24 2022 This detailed book is a resource for students, practitioners, and leaders interested in how the major world religions have understood poverty and responded to the poor. • Addresses a topic of great importance: the intersection of religion, a universal cultural phenomenon; and the poor, a population whose demographics are on the rise globally • Fills the need for an accurate, authoritative resource on the way poverty and the poor are understood in the world's religions • Coedited by a published specialist in world religions and a recognized specialist, academic, and practitioner in international responses to poverty and emergency response in a variety of cultures

Cyber Risks, Social Media and Insurance: A Guide to Risk Assessment and Management Oct 28 2019 This publication provides unique and indispensable guidance to all in the insurance industry, other businesses and their counsel in identifying and understanding the risks (notably including cyber risks) they face by using social media in the business world and mitigating those risks through a compilation of best practices by industry experts and rulings by courts and regulatory authorities. It features analyses of pertinent policies, statutes and cases.

Developing Connectivity between Education and Work Mar 02 2020 Future-oriented education needs to invest in the connectivity between learning and working in order to realise its full potential. This book presents guiding principles on how to build these successful connections. By taking an educational perspective and enriching it with insights from human resource development, this book explores the why, how and what of designing for connectivity. This edited volume presents the current knowledge about educational practices and principles that help to realise connectivity between learning and working experiences. Introducing the central perspectives of workplace learning and learning environments at the boundary of school and work, this book presents key research that examines how educators and professionals from organisations and schools can come together with the purpose of realising connectivity in educational programmes. Empirical research showcasing both theoretical and practical insights from real life cases are at the heart of this book. Considering the barriers to achieving connectivity, this book also focuses on how it can be achieved, with ideas and guidance about communication, design principles and best practices. Using carefully chosen international examples, this book is ideal reading for policy makers, practitioners and researchers looking to learn more about connecting learning and working experiences.

Semantic Web Technologies and Legal Scholarly Publishing Oct 21 2021 This work deals with the applications of Semantic Publishing technologies in the legal domain, i.e., the use of Semantic Web technologies to address issues related to the Legal Scholarly Publishing. Research in the field of Law has a long tradition in the application of semantic technologies, such as Semantic Web and Linked Data, to real-world scenarios. This book investigates and proposes solutions for three main issues that Semantic Publishing needs to address within the context of the Legal Scholarly Publishing: the need of tools for linking document text to a formal representation of its meaning; the lack of complete metadata schemas for describing documents according to the publishing vocabulary and the absence of effective tools and user interfaces for easily acting on semantic publishing models and theories. In particular, this work introduces EARMARK, a markup meta language that allows one to create markup documents without the structural and semantic limits imposed by markup languages such as XML. EARMARK is a platform to link the content layer of a document with its intended formal semantics and it can be used with the Semantic Publishing and Referencing (SPAR) Ontologies, another topic in this book. SPAR Ontologies are a collection of formal models providing an upper semantic layer for describing the publishing domain. Using EARMARK as a foundation for SPAR descriptions opens up to a semantic characterisation of all the aspects of a document and of its parts. Finally, four user-friendly tools are introduced: LODÉ, KC-Viz, Graffoo and Gaffe. They were expressly developed to facilitate the interaction of publishers and domain experts with Semantic Publishing technologies by shielding such users from the underlying formalisms and semantic models of such technologies.

Collinear Resonance Ionization Spectroscopy of Neutron-Rich Indium Isotopes Feb 22 2022 This thesis describes the application of the collinear resonance laser spectroscopy to sensitively measure the electromagnetic nuclear observables of the neutron-rich indium isotopes $^{115-131}\text{In}$. This entailed a systematic study of the efficiency of resonant ionization schemes to extract the hyperfine structure of the isotopes, the atomic charge exchange process and benchmarking of modern atomic calculations with a laser ablation ion source. This allowed determination of the root-mean-square nuclear charge radii, nuclear magnetic dipole moments, nuclear electric quadrupole moments and nuclear spins of the $^{113-131}\text{In}$ isotopes with high accuracy. With a proton hole in the $Z = 50$ nuclear shell closure of tin and several nuclear isomer states, these measurements of the indium ($Z = 49$) isotope chain provided an efficient probe

of the evolution of nuclear structure properties towards and at the doubly-magic nuclear shell closure of ^{132}Sn ($N = 82$) - revealing unpredicted changes.

The Rowman & Littlefield Handbook on Aging and Work Nov 09 2020 This handbook is a comprehensive resource for students, scholars, and practitioners seeking a broad overview of interrelated topics concerning the aging workforce.

Surgical Oncology Clinics, An Issue of Surgical Oncology Clinics of North America Jan 30 2020 This issue of Surgical Oncology Clinics of North America focuses on Biliary Tract and Primary Liver Tumors and is edited by Dr. T. Clark Gamblin. Articles will include: Biliary Tract and Primary Liver Tumors; Biliary Tract and Primary Liver Tumors: Who, What and Why?; Imaging Updates for Biliary Tract or Primary Liver Tumors; Endoscopic and Percutaneous Approaches to Treat of Biliary Tract and Primary Liver Tumors: Controversies and Advances; Intrahepatic Cholangiocarcinoma: Strategies and Options; Surgical Considerations of Hilar Cholangiocarcinoma; Gall Bladder Cancer: Managing the Incidental Diagnosis; Approaches and Outcomes to Distal Cholangiocarcinoma; Evolving Surgical Options of Hepatocellular Carcinoma; Staging of Biliary and Primary Liver Tumors: Current Recommendations and Workup; Systemic and Targeted Therapy for Biliary Tract Tumors and Primary Liver Tumors; Regional Chemotherapy for Biliary Tract and Primary Liver Cancer; Role of Radioembolization for Biliary Tract and Primary Liver Cancer; Inoperable Biliary Tract and Primary Liver Tumors: Palliative Treatment Options; Expanding the Surgical Pool for Hepatic Resection to Treat Biliary and Primary Liver Tumors; and more!

Danube:Future Interdisciplinary School Proceedings 2017 Sep 19 2021 Global change processes, such as climate change, digitalization, migration movements and economic crises, are among the greatest challenges of our time and also shape the Danube macro-region as a specifically challenging region of Europe. As part of the Danube:Future Interdisciplinary School 2017 in Krems 28 PhD-students and young scientists from Alps-Adriatic Rectors' Conference and the Danube Rectors' Conference universities discussed these questions and developed research proposals within this broad context. These proceedings offer a comprehensive overview of the generated work. The Danube:Future Interdisciplinary School is part of the Capacity Building Module of the Danube:Future project, a Flagship Project of the EUSDR – the European Union Strategy for the Danube Region, in the Priority Area Knowledge Society. Danube:Future is a joint network project of the Alps-Adriatic Rectors' Conference and the Danube Rectors' Conference. It aims at capacity building in the Danube River Basin (DRB) and at providing networking to aid the development common research projects for a sustainable future of the DRB.

Computational Science and Its Applications – ICCSA 2019 Sep 27 2019 The six volumes LNCS 11619-11624 constitute the refereed proceedings of the 19th International Conference on Computational Science and Its Applications, ICCSA 2019, held in Saint Petersburg, Russia, in July 2019. The 64 full papers, 10 short papers and 259 workshop papers presented were carefully reviewed and selected from numerous submissions. The 64 full papers are organized in the following five general tracks: computational methods, algorithms and scientific applications; high performance computing and networks; geometric modeling, graphics and visualization; advanced and emerging applications; and information systems and technologies. The 259 workshop papers were presented at 33 workshops in various areas of computational sciences, ranging from computational science technologies to specific areas of computational sciences, such as software engineering, security, artificial intelligence and blockchain technologies.

Modern Applied Statistics with S-PLUS Nov 02 2022 A guide to using the power of S-PLUS to perform statistical analyses, providing both an introduction to the program and a course in modern statistical methods. Readers are assumed to have a basic grounding in statistics, thus the book is intended for would-be users, as well as students and researchers using statistics. Throughout, the emphasis is on presenting practical problems and full analyses of real data sets, with many of the methods discussed being modern approaches to topics such as linear and non-linear regression models, robust and smooth regression methods, survival analysis, multivariate analysis, tree-based methods, time series, spatial statistics, and classification. This second edition is intended for users of S-PLUS 3.3, or later, and covers both Windows and UNIX. It treats the recent developments in graphics and new statistical functionality, including bootstrapping, mixed effects linear and non-linear models, factor analysis, and regression with autocorrelated errors. The authors have written several software libraries which enhance S-PLUS, and these, plus all the datasets used, are available on the Internet.

Climate Extremes and Their Implications for Impact and Risk Assessment Sep 07 2020 Climate extremes often imply significant impacts on human and natural systems, and these extreme events are anticipated to be among the potentially most harmful consequences of a changing climate. However, while extreme event impacts are increasingly recognized, methodologies to address such impacts and the degree of our understanding and prediction capabilities vary widely among different sectors and disciplines. Moreover, traditional climate extreme indices and large-scale multi-model intercomparisons that are used for future projections of extreme events and associated impacts often fall short in capturing the full complexity of impact systems. *Climate Extremes and Their Implications for Impact and Risk Assessment* describes challenges, opportunities and methodologies for the analysis of the impacts of climate extremes across various sectors to support their impact and risk assessment. It thereby also facilitates cross-sectoral and cross-disciplinary discussions and exchange among climate and impact scientists. The sectors covered include agriculture, terrestrial ecosystems, human health, transport, conflict, and more broadly covering the human-environment nexus. The book concludes with an outlook on the need for more transdisciplinary work and international collaboration between scientists and practitioners to address emergent risks and extreme events towards risk reduction and strengthened societal resilience. Provides an overview about past, present and future changes in climate and weather extremes and how to connect that knowledge to impact and risk assessment under global warming Presents different approaches to assess societal-relevant impacts and risk of climate and weather extremes, including compound events, and the complexity of risk cascades and the interconnectedness of societal risk Features applications across a diversity of sectors, including agriculture, health, ecosystem services and urban transport

Oscillation, Nonoscillation, Stability and Asymptotic Properties for Second and Higher Order Functional Differential Equations Aug 07 2020 Asymptotic properties of solutions such as stability/ instability, oscillation/ nonoscillation, existence of solutions with specific asymptotics, maximum principles present a classical part in the theory of higher order functional differential equations. The use of these equations in applications is one of the main reasons for the developments in this field. The control in the mechanical processes leads to mathematical models with second order delay differential equations. Stability and stabilization of second order delay equations are one of the main goals of this book. The book is based on the authors' results in the last decade. Features: Stability, oscillatory and asymptotic properties of solutions are studied in correlation with each other. The first systematic description of stability

methods based on the Bohl-Perron theorem. Simple and explicit exponential stability tests. In this book, various types of functional differential equations are considered: second and higher orders delay differential equations with measurable coefficients and delays, integro-differential equations, neutral equations, and operator equations. Oscillation/nonoscillation, existence of unbounded solutions, instability, special asymptotic behavior, positivity, exponential stability and stabilization of functional differential equations are studied. New methods for the study of exponential stability are proposed. Noted among them include the W-transform (right regularization), a priori estimation of solutions, maximum principles, differential and integral inequalities, matrix inequality method, and reduction to a system of equations. The book can be used by applied mathematicians and as a basis for a course on stability of functional differential equations for graduate students.

Introduction to Data Science May 16 2021 This accessible and classroom-tested textbook/reference presents an introduction to the fundamentals of the emerging and interdisciplinary field of data science. The coverage spans key concepts adopted from statistics and machine learning, useful techniques for graph analysis and parallel programming, and the practical application of data science for such tasks as building recommender systems or performing sentiment analysis. Topics and features: provides numerous practical case studies using real-world data throughout the book; supports understanding through hands-on experience of solving data science problems using Python; describes techniques and tools for statistical analysis, machine learning, graph analysis, and parallel programming; reviews a range of applications of data science, including recommender systems and sentiment analysis of text data; provides supplementary code resources and data at an associated website.

Novel Food and Feed Safety Assessment of Foods and Feeds Derived from Transgenic Crops, Volume 3 Common bean, Rice, Cowpea and Apple Compositional Considerations Oct 09 2020 This volume compiles the consensus documents developed by the OECD Working Group for the Safety of Novel Foods and Feeds from 2015 to 2019. It deals with the composition of common bean, rice, cowpea and apple, four important crops for agriculture and food consumption worldwide. The science-based information collated here is intended for use during the regulatory assessment of food/feed products derived from modern biotechnology, i.e. issued from transgenic plants.

Proofs from THE BOOK Aug 26 2019 This revised and enlarged fifth edition features four new chapters, which contain highly original and delightful proofs for classics such as the spectral theorem from linear algebra, some more recent jewels like the non-existence of the Borromean rings and other surprises. From the Reviews "... Inside PFTB (Proofs from The Book) is indeed a glimpse of mathematical heaven, where clever insights and beautiful ideas combine in astonishing and glorious ways. There is vast wealth within its pages, one gem after another. ... Aigner and Ziegler... write: "... all we offer is the examples that we have selected, hoping that our readers will share our enthusiasm about brilliant ideas, clever insights and wonderful observations." I do. ... " Notices of the AMS, August 1999 "... This book is a pleasure to hold and to look at: ample margins, nice photos, instructive pictures and beautiful drawings ... It is a pleasure to read as well: the style is clear and entertaining, the level is close to elementary, the necessary background is given separately and the proofs are brilliant. ..." LMS Newsletter, January 1999 "Martin Aigner and Günter Ziegler succeeded admirably in putting together a broad collection of theorems and their proofs that would undoubtedly be in the Book of Erdős. The theorems are so fundamental, their proofs so elegant and the remaining open questions so intriguing that every mathematician, regardless of speciality, can benefit from reading this book. ..." SIGACT News, December 2011.

Chalcogen Chemistry May 04 2020 This is a handy textbook comprised of chapters introducing the fundamentals of chalcogen chemistry with a focus on chalcogens and selected derived compounds and/or materials with illustrative practical applications. These low-valent chemistry elements of Group 16 or group VI- in the modern periodic table include oxygen (O), sulfur (S), selenium (Se), tellurium (Te), and polonium (Po), and they exhibit extremely interesting properties. They are endowed with supramolecular and structure bonding reactivities that allow them to form a variety of new compounds with sophisticated characteristics, thus making their way into a new era of materials development. It is hoped that readers of this textbook with a general background knowledge in chemistry, biogeochemistry, biochemistry, biology, food, agriculture, and also medicine, as well as pharmacy, will find the chapters enriching in new knowledge. An introductory chapter orients readership in this particular field of chemistry with a summative focus on the multidisciplinary approach employed in the compilation of the chapters. As such, the text is suitable for scientists, technologists, students, as well as those whose major interest is chalcogen chemistry, with particular interests in the chalcogen compounds and materials.

Quantum Electrodynamics of Photosynthesis Mar 26 2022 This book uses an array of different approaches to describe photosynthesis, ranging from the subjectivity of human perception to the mathematical rigour of quantum electrodynamics. This interdisciplinary work draws from fields as diverse as astronomy, agriculture, classical and quantum optics, and biology in order to explain the working principles of photosynthesis in plants and cyanobacteria.

New Opportunities and Challenges in Occupational Safety and Health Management Nov 29 2019 Global economy and its business environment, and thus the world of work, have recently been influenced by demographic and social changes, globalisation, as well as rapid development and introduction of novel, sophisticated and previously unknown technologies and new business models, especially in the context of the so-called fourth industrial revolution. These changes pose a number of challenges in terms of maintaining and improving occupational safety and health (OSH) management performance, as traditional approaches to OSH management in new working environments may no longer be effective. In view of the above, the overall goal of this book is to present new approaches and methods for improving the effectiveness of OSH management. They are based on state-of-the-art research and are in line with the latest trends and concepts in the field. The book focuses on five thematic areas, which are discussed in respective chapters: 1) Implementing the process approach to OSH management; 2) Improving OSH management systems with fuzzy cognitive maps; 3) Implementing strategic thinking approaches in relation to OSH management; 4) Integrating OSH management within the framework of the CSR concept; 5) Enhancing OSH management processes through the use of smart digital technologies. The methods and solutions discussed may be considered as specific "opportunities" for the improvement to be taken into account in the processes of implementing and maintaining an OSH management system in light of the requirements of the new ISO 45001 standard.

Customization 4.0 Mar 14 2021 This proceedings volume presents the latest research from the worldwide mass customization & personalization (MCP) community bringing together new thoughts and results from various disciplines within the field. The chapters are based on papers from the MCPC 2017. The book showcases research and practice from authors that see MCP as an opportunity to

extend or even revolutionize current business models. The current trends of Industrie 4.0, digital manufacturing, and the rise of smart products allow for a fresh perspective on MCP: Customization 4.0. The book places a new set of values in the centre of the debate: a world with finite resources, global population growth, and exacerbating climate change needs smart thinking to engage the most effective capabilities and resources. It discusses how Customization 4.0 fosters sustainable development and creates shared value for companies, customers, consumers, and the society as a whole. The chapters of this book are contributed by a wide range of specialists, offering cutting-edge research, as well as insightful advances in industrial practice in key areas. The MCPC 2017 has a strong focus on real life MCP applications, and this proceedings volume reflects this. MCP strategies aim to profit from the fact that people are different. Their objective is to turn customer heterogeneities into opportunities, hence addressing “long tail” business models. The objective of MCP is to provide goods and services that best serve individual customers’ needs with near mass production efficiency. This proceedings volume highlights the interdisciplinary work of thought leaders, technology developers, and researchers with corporate entrepreneurs putting these strategies into practice. Chapter 24 is open access under a CC BY 4.0 license via link.springer.com.

Tattooed Bodies Oct 01 2022 "Tattooed Bodies--apart from often being an exemplary model of Continental philosophy--is a groundbreaking contribution to tattoo studies that shows us how tattooing, when taken seriously, can open up the meanings of works of art, literature, film, and theory itself in unexpected ways. For those who have already been thinking about the meaning of "the tattoo," this collection of essays will greatly expand possibilities of inquiry. For those who are new to the field, several essays act simply as excellent primers on how to undertake deconstructive, anthropological, aesthetic analysis in general offering up scholarly, nuanced investigations of texts without indulging in exclusionary jargon." -Danielle Meijer, DePaul University "What is a tattoo? Associated in the past with criminals and degenerates, tattoos have become high fashion in the 21st century. In this collection, leading scholars speculate about the nature and implications of these bodily inscriptions. Are they social or antisocial? Conformist or rebellious? Decorative or disfiguring? Atavistic or futuristic? How do they relate to other scars, such as the navel as the mark of our maternal origin? By opening up these questions and many more, the essays in this volume show how the tattoo challenges the distinction between word and flesh, self and society, life and death." -Maud Ellmann, University of Chicago The essays collected in *Tattooed Bodies* draw on a range of theoretical paradigms and empirical knowledge to investigate tattoos, tattooing, and our complex relations with marks on skin. Engaging with perspectives in art history, continental philosophy, media studies, psychoanalysis, critical theory, literary studies, biopolitics, and cultural anthropology, the volume reflects the diversity of meanings attributed to tattoos across cultures. Essays explore tattoos and tattooing in Derrida, Deleuze and Guattari, Lacan, Agamben, and Jean-Luc Nancy, while interpreting tattoos in literary works by Melville, Beckett, Kafka, Genet, and Jeff VanderMeer, among others. James Martell is Associate Professor of French at Lyon College, USA. Erik Larsen is Assistant Professor of Medical Humanities at the University of Rochester, USA.

Ayam Dec 11 2020 *Ayam* discover your beautiful self helps us craft a journey that is unique for each one of us. It brings us a collection of tools drawn from both ancient wisdom and modern science, in a clear, easy to learn way. The aim is to enhance our awareness of new possibilities, new ways of living, working, relating, and being in our lives. Step by step, we are offered the insights and tools we need to grow from where we are and to begin experiencing the wholeness of this mystery called ‘most beautiful self’.