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Radiolabelled Molecules for Brain Imaging with PET and SPECT - Peter Brust 2020-11-26
Positron emission tomography (PET) and single-photon emission computed tomography (SPECT) are in vivo molecular imaging methods which are widely used in nuclear medicine for diagnosis and treatment follow-up of many major diseases. These methods use target-specific molecules as probes, which are labeled with radionuclides of short half-lives that are synthesized prior to the imaging studies. These probes are called radiopharmaceuticals. The use of PET and SPECT for brain imaging is of special significance since the brain controls all the body's functions by processing information from the whole body and the outside world. It is the source of thoughts, intelligence, memory, speech, creativity, emotion, sensory functions, motion control, and other important body functions. Protected by the skull and the blood-brain barrier, the brain is somehow a privileged organ with regard to nutrient supply, immune response, and accessibility for diagnostic and therapeutic measures. Invasive procedures are rather limited for the latter purposes. Therefore, noninvasive imaging with PET and SPECT has gained high importance for a great variety of brain diseases, including neurodegenerative diseases, motor dysfunctions, stroke, epilepsy, psychiatric diseases, and brain tumors. This Special Issue focuses on radiolabeled molecules that are used for these purposes, with special emphasis on neurodegenerative diseases and brain tumors.

Marine Algal Antioxidants - Christophe Brunet 2020-09-16
This book entitled Marine Algal Antioxidants, as a special issue of the Antioxidants journal, encloses eleven scientific articles with a preface written by the two editors, Christophe Brunet and Clementina Sansone. Marine Algal Antioxidants book reports advances of the research on marine photosynthetic organisms for the growth of biotechnological pipelines aimed to enhance antioxidant molecules production by algae. More than twenty scientists share the results of their research and highlight the relevance of algae for developing marine biotechnology products to flourish the requirements of nutraceuticals or cosmeceuticals in the defense of human health. Multidisciplinary of the scientific approaches presented in this book - such as physiological, molecular, chemistry, technical or technological methodologies - lays the foundation for harmonizing the links between them towards the unique goal of the improvement of marine algal factory processes.
The Human Use Of Human Beings - Norbert Wiener 1988-03-22
Only a few books stand as landmarks in social and scientific upheaval. Norbert Wiener's classic is one in that small company. Founder of the science of cybernetics—the study of the relationship between computers and the human nervous system—Wiener was widely misunderstood as one who advocated the automation of human life. As this book reveals,

his vision was much more complex and interesting. He hoped that machines would release people from relentless and repetitive drudgery in order to achieve more creative pursuits. At the same time he realized the danger of dehumanizing and displacement. His book examines the implications of cybernetics for education, law, language, science, technology, as he anticipates the enormous impact—in effect, a third industrial revolution—that the computer has had on our lives.

Strengthening Mechanisms in Crystal Plasticity - Ali Argon 2008

Technologically important metals and alloys have been strengthened throughout history by empirical means. The scientific bases of the central mechanisms of such forms of strengthening, developed over the past several decades are presented here through mechanistic models and associated experimental results.

Visual Analysis of Multilayer Networks - Fintan McGee 2021-06-10

This is an overview and structured analysis of contemporary multilayer network visualization. It surveys techniques as well as tools, tasks, and analytics from within application domains. It also identifies research opportunities and examines outstanding challenges along with potential solutions and future research directions for addressing them. Visual Analysis of Multilayer Networks is not only for visualization researchers, but for those who need to visualize multilayer networks in the domain of complex systems, as well as anyone solving problems within application domains. The emergence of multilayer networks as a concept from the field of complex systems provides many new opportunities for the visualization of network complexity, and has also raised many new exciting challenges. The multilayer network model recognizes that the complexity of relationships between entities in real-world systems is better embraced as several interdependent subsystems (or layers) rather than a simple graph approach. Despite only recently being formalized and defined, this model can be applied to problems in the domains of life sciences, sociology, digital humanities, and more. Within the domain of network visualization there already are many existing

systems, which visualize data sets having many characteristics of multilayer networks, and many techniques, which are applicable to their visualization.

Values and Functions for Future Cities - Giulio Mondini 2019-08-06

This book features a selection of the best papers presented at two SIEV seminars held in Venice, Italy, in September 2017 and 2018, in the context of the Urbanpromo Green events. Bringing together experts from a diverse range of fields - economics, appraisal, architecture, energy, urban planning, sociology, and the decision sciences - and government representatives, the seminars encouraged reflections on the role of future cities in terms of sustainable development, with a particular focus on improving collective and individual well-being. The book provides a multidisciplinary approach to contemporary green urban agendas and urban sustainability, and addresses the demand for policies and strategies to strengthen resilience through concrete measures to reduce energy consumption, mitigate pollution, promote social inclusion and create urban identity.

Friction in Temporary Works - Health and Safety Executive Staff 2003-02-13

During initial assembly, temporary works often rely upon friction to provide lateral stability. Frictional resistance is also utilised in temporary works design as a means of transferring horizontal forces through falsework or formwork to points of restraint. values of static coefficient of friction and to establish practical values of the coefficient for the latest commonly used materials in temporary works. Friction tests were undertaken on 260 combinations of different material faces used in temporary works, including both dry and saturated timber. The tests generated data for combinations for which no codified data exist and also generated data which could be compared with existing British and German codified data

100% Renewable Energy Transition - Claudia Kemfert 2020-01-23

Energy markets are already undergoing considerable transitions to accommodate new (renewable) energy forms, new (decentral) energy players, and new system requirements, e.g. flexibility and resilience. Traditional energy

markets for fossil fuels are therefore under pressure, while not-yet-mature (renewable) energy markets are emerging. As a consequence, investments in large-scale and capital intensive (traditional) energy production projects are surrounded by high uncertainty, and are difficult to hedge by private entities.

Traditional energy production companies are transforming into energy service suppliers and companies aggregating numerous potential market players are emerging, while regulation and system management are playing an increasing role. To address these increasing uncertainties and complexities, economic analysis, forecasting, modeling and investment assessment require fresh approaches and views. Novel research is thus required to simulate multiple actor interplays and idiosyncratic behavior. The required approaches cannot deal only with energy supply, but need to include active demand and cover systemic aspects. Energy market transitions challenge policy-making. Market coordination failure, the removal of barriers hindering restructuring and the combination of market signals with command-and-control policy measures are some of the new aims of policies. The aim of this Special Issue is to collect research papers that address the above issues using novel methods from any adequate perspective, including economic analysis, modeling of systems, behavioral forecasting, and policy assessment. The issue will include, but is not be limited to: Local control schemes and algorithms for distributed generation systems Centralized and decentralized sustainable energy management strategies Communication architectures, protocols and properties of practical applications Topologies of distributed generation systems improving flexibility, efficiency and power quality Practical issues in the control design and implementation of distributed generation systems Energy transition studies for optimized pathway options aiming for high levels of sustainability

[The Ascetic Imperative in Culture and Criticism](#) - Geoffrey Galt Harpham 1992-02-15

In this bold interdisciplinary work, Geoffrey Galt Harpham argues that asceticism has played a major role in shaping Western ideas of the body, writing, ethics, and aesthetics. He suggests that

we consider the ascetic as "the 'cultural' element in culture," and presents a close analysis of works by Athanasius, Augustine, Matthias, Grünewald, Nietzsche, Foucault, and other thinkers as proof of the extent of asceticism's resources. Harpham demonstrates the usefulness of his findings by deriving from asceticism a "discourse of resistance," a code of interpretation ultimately more generous and humane than those currently available to us.

[Formless](#) - Bois 1997

Published to accompany exhibition held at the Centre Georges Pompidou, Paris 22/5 - 26/8 1996.

Affordable and Clean Energy - Walter Leal Filho 2021-01-10

The problems related to the process of industrialisation such as biodiversity depletion, climate change and a worsening of health and living conditions, especially but not only in developing countries, intensify. Therefore, there is an increasing need to search for integrated solutions to make development more sustainable. The United Nations has acknowledged the problem and approved the "2030 Agenda for Sustainable Development". On 1st January 2016, the 17 Sustainable Development Goals (SDGs) of the Agenda officially came into force. These goals cover the three dimensions of sustainable development: economic growth, social inclusion and environmental protection. The Encyclopedia of the UN Sustainable Development Goals comprehensively addresses the SDGs in an integrated way. The Encyclopedia encompasses 17 volumes, each one devoted to one of the 17 SDGs. This volume addresses SDG 7, namely "Ensure access to affordable, reliable, sustainable and modern energy for all" and contains the description of a range of terms, which allow a better understanding and foster knowledge. Energy is crucial for achieving almost all others SDGs, from its role in the eradication of poverty through advancements in health, education, water supply and industrialization, to combating climate change. This book presents a set of papers on the state-of-the-art of knowledge and practices about energy sustainable, in terms of generation and demand energy, considering aspects of innovation, management, sources of energy,

performance, society behavior, and infrastructure, among others. Concretely, the defined targets are: Ensure universal access to affordable, reliable and modern energy services Increase substantially the share of renewable energy in the global energy mix Double the global rate of improvement in energy efficiency Enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology Expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing states and landlocked developing countries, in accordance with their respective programmes of support Editorial Board Md. Mahmudul Alam, Justin Bishop, Luciana Londero Brandli, Elisa Conticelli, Marcos Antonio Leite Frandoloso, Haruna Musa Moda, Matti Sommarberg

Mechanics of Generalized Continua - Gérard A. Maugin 2010-03-24

In their 1909 publication *Théorie des corps déformables*, Eugène and François Cosserat made a historic contribution to materials science by establishing the fundamental principles of the mechanics of generalized continua. The chapters collected in this volume showcase the many areas of continuum mechanics that grew out of the foundational work of the Cosserat brothers. The included contributions provide a detailed survey of the most recent theoretical developments in the field of generalized continuum mechanics and can serve as a useful reference for graduate students and researchers in mechanical engineering, materials science, applied physics and applied mathematics.

The Valuation of Digital Intangibles - Roberto Moro Visconti 2020-02-17

This book offers a primer on the valuation of digital intangibles, a trending class of immaterial assets. Startups like successful unicorns, as well as consolidated firms desperately working to re-engineer their business models, are now trying to go digital and to reap higher returns by exploiting new intangibles. This book is innovative in its design and concept since it

tackles a frontier topic with an original methodology, combining academic rigor with practical insights. Digital intangibles range from digitized versions of traditional immaterial assets (brands, patents, know-how, etc.) to more trendy applications like big data, Internet of Things, interoperable databases, artificial intelligence, digital newspapers, social networks, blockchains, FinTech applications, etc. This book comprehensively addresses related valuation issues, and demonstrates how best practices can be applied to specific asset appraisals, making it of interest to researchers, students, and practitioners alike.

Sustainable Manufacturing Rainer Stark 2017-01-16

This edited volume presents the research results of the Collaborative Research Center 1026 "Sustainable manufacturing - shaping global value creation". The book aims at providing a reference guide of sustainable manufacturing for researchers, describing methodologies for development of sustainable manufacturing solutions. The volume is structured in four chapters covering the following topics: sustainable manufacturing technology, sustainable product development, sustainable value creation networks and systematic change towards sustainable manufacturing. The target audience comprises both researchers and practitioners in the field of sustainable manufacturing, but the book may also be beneficial for graduate students.

Modern Information Retrieval - Yates 1999-09

Computational Materials Science - Dierk Raabe 1998-10-27

Modeling and simulation play an ever increasing role in the development and optimization of materials. Computational Materials Science presents the most important approaches in this new interdisciplinary field of materials science and engineering. The reader will learn to assess which numerical method is appropriate for performing simulations at the various microstructural levels and how they can be coupled. This book addresses graduate students and professionals in materials science and engineering as well as materials-oriented physicists and mechanical engineers.

Fundamentals of Amorphous Solids -

Zbigniew H. Stachurski 2015-03-09

Long awaited, this textbook fills the gap for convincing concepts to describe amorphous solids. Adopting a unique approach, the author develops a framework that lays the foundations for a theory of amorphousness. He unravels the scientific mysteries surrounding the topic, replacing rather vague notions of amorphous materials as disordered crystalline solids with the well-founded concept of ideal amorphous solids. A classification of amorphous materials into inorganic glasses, organic glasses, glassy metallic alloys, and thin films sets the scene for the development of the model of ideal amorphous solids, based on topology- and statistics-governed rules of three-dimensional sphere packing, which leads to structures with no short, mid or long-range order. This general model is then concretized to the description of specific compounds in the four fundamental classes of amorphous solids, as well as amorphous polyethylene and poly(methyl) methacrylate, emphasizing its versatility and descriptive power. Finally, he includes example applications to indicate the abundance of amorphous materials in modern-day technology, thus illustrating the importance of a better understanding of their structure and properties. Equally ideal as supplementary reading in courses on crystallography, mineralogy, solid state physics, and materials science where amorphous materials have played only a minor role until now.

Renewable Energy Forecasting - Georges Kariniotakis 2017-09-29

Renewable Energy Forecasting: From Models to Applications provides an overview of the state-of-the-art of renewable energy forecasting technology and its applications. After an introduction to the principles of meteorology and renewable energy generation, groups of chapters address forecasting models, very short-term forecasting, forecasting of extremes, and longer term forecasting. The final part of the book focuses on important applications of forecasting for power system management and in energy markets. Due to shrinking fossil fuel reserves and concerns about climate change, renewable energy holds an increasing share of the energy mix. Solar, wind, wave, and hydro

energy are dependent on highly variable weather conditions, so their increased penetration will lead to strong fluctuations in the power injected into the electricity grid, which needs to be managed. Reliable, high quality forecasts of renewable power generation are therefore essential for the smooth integration of large amounts of solar, wind, wave, and hydropower into the grid as well as for the profitability and effectiveness of such renewable energy projects. Offers comprehensive coverage of wind, solar, wave, and hydropower forecasting in one convenient volume Addresses a topic that is growing in importance, given the increasing penetration of renewable energy in many countries Reviews state-of-the-science techniques for renewable energy forecasting Contains chapters on operational applications

Biologically Inspired Robotics - Yunhui Liu 2017-12-19

Robotic engineering inspired by biology—biomimetics—has many potential applications: robot snakes can be used for rescue operations in disasters, snake-like endoscopes can be used in medical diagnosis, and artificial muscles can replace damaged muscles to recover the motor functions of human limbs. Conversely, the application of robotics technology to our understanding of biological systems and behaviors—biorobotic modeling and analysis—provides unique research opportunities: robotic manipulation technology with optical tweezers can be used to study the cell mechanics of human red blood cells, a surface electromyography sensing system can help us identify the relation between muscle forces and hand movements, and mathematical models of brain circuitry may help us understand how the cerebellum achieves movement control. Biologically Inspired Robotics contains cutting-edge material—considerably expanded and with additional analysis—from the 2009 IEEE International Conference on Robotics and Biomimetics (ROBIO). These 16 chapters cover both biomimetics and biorobotic modeling/analysis, taking readers through an exploration of biologically inspired robot design and control, micro/nano bio-robotic systems, biological measurement and actuation, and applications of robotics technology to biological problems. Contributors examine a wide range of

topics, including: A method for controlling the motion of a robotic snake The design of a bionic fitness cycle inspired by the jaguar The use of autonomous robotic fish to detect pollution A noninvasive brain-activity scanning method using a hybrid sensor A rehabilitation system for recovering motor function in human hands after injury Human-like robotic eye and head movements in human-machine interactions A state-of-the-art resource for graduate students and researchers.

Handbook of Mathematical Geosciences B.S. Daya Sagar 2018-06-25

This Open Access handbook published at the IAMG's 50th anniversary, presents a compilation of invited path-breaking research contributions by award-winning geoscientists who have been instrumental in shaping the IAMG. It contains 45 chapters that are categorized broadly into five parts (i) theory, (ii) general applications, (iii) exploration and resource estimation, (iv) reviews, and (v) reminiscences covering related topics like mathematical geosciences, mathematical morphology, geostatistics, fractals and multifractals, spatial statistics, multipoint geostatistics, compositional data analysis, informatics, geocomputation, numerical methods, and chaos theory in the geosciences.

Mapping the Progress of Alzheimer's and Parkinson's Disease - Yoshikuni Mizuno 2002-03-31

The 5th International Conference on the Progress in Alzheimer's Disease and Parkinson's Disease took place from March 31 to April 5, 2001 in Kroto, Japan. This international conference was organized as a joint Congress with the 9th International Catecholamine Symposium. A total of 1258 clinicians and researchers participated in this joint congress from 38 countries in the world. This book represents the proceedings of the 5th Conference on Alzheimer's and Parkinson's disease. The International Conference on the Progress in Alzheimer's and Parkinson's disease was first launched by Professor Abraham Fisher of Israel and Professor Israel Hanin of USA. The first conference was held in Eilat, Israel in 1985. The second conference was organized in Kyoto, Japan in 1989; the third one in Chicago, USA, in 1993, and the fourth one in Eilat, Israel in 1997. The International Catecholamine Symposium

(ICS) is an international meeting devoted to the development of basic as well as clinical research on catecholamines. The first Catecholamine Symposium was held in Bethesda, USA in 1958. Since then this symposium has occurred every 5 years. Professor Toshiharu Nagatsu was appointed as the president of the 9th International Catecholamine Symposium, which was to be held in 2001 also in Japan. Therefore, we decided to organize a joint congress of the two meetings, because there is much overlap in research between Alzheimer's disease, Parkinson's disease, and catecholamines. We thank Professor Nagatsu very much for agreeing to organizing this joint congress.

Opioids in Non-Cancer Pain - Cathy Stannard 2013-03-21

This pocketbook summarizes the recent developments in this important and controversial aspect of pain management, looking at the benefits and adverse effects of opioids in non-cancer pain.

Vanished Ocean - Dorrik Stow 2012-03-29

Once, the ocean of Tethys stretched across the world. It vanished just before Man appeared on Earth. Dorrik Stow tells of the powerful forces that created and destroyed a great ocean, its marine life, its extinctions, its impact on climate, and the many clues by which scientists have put together its story, stretching back 250 million years.

Governance and Performance Management in Public Universities - Eugenio Caperchione 2022-01-08

This edited volume contributes to the ongoing research and practice on applying performance management to university governance. A comparative approach and international perspective of the issue is provided through extensive use of case studies and empirical findings. A specific focus is also placed on using performance governance applied to higher education institutions' Third Mission, and on enhancing decision makers' ability to frame dynamic complexity. In this regard, specific attention is devoted to analyzing the cause-and-effect relationships in affecting public outcomes. This also includes managing trade-offs in both time and space, and detecting and counteracting unintended behavioral effects from the use of formal systems focused on quantitative

measures for performance assessment.

The Long Evolution of Brains and Minds -

Gerhard Roth 2013-06-03

The main topic of the book is a reconstruction of the evolution of nervous systems and brains as well as of mental-cognitive abilities, in short "intelligence" from simplest organisms to humans. It investigates to which extent the two are correlated. One central topic is the alleged uniqueness of the human brain and human intelligence and mind. It is discussed which neural features make certain animals and humans intelligent and creative: Is it absolute or relative brain size or the size of "intelligence centers" inside the brains, the number of nerve cells inside the brain in total or in such "intelligence centers" decisive for the degree of intelligence, of mind and eventually consciousness? And which are the driving forces behind these processes? Finally, it is asked what all this means for the classical problem of mind-brain relationship and for a naturalistic theory of mind.

Food Media - Signe Rousseau 2013-05-09

There have been famous chefs for centuries. But it was not until the second half of the twentieth century that the modern celebrity chef business really began to flourish, thanks largely to advances in media such as television which allowed ever-greater numbers of people to tune in. *Food Media* charts the growth of this enormous entertainment industry, and also how, under the threat of the obesity "epidemic," some of its stars have taken on new authority as social activists, while others continue to provide delicious distractions from a world of potentially unsafe food. The narrative that joins these chapters moves from private to public consumption, and from celebrating food fantasies to fueling anxieties about food realities, with the questionable role of interference in people's everyday food choices gaining ground along the way. Covering celebrity chefs such as Jamie Oliver and Rachael Ray, and popular trends like foodies, food porn and fetishism, *Food Media* describes how the intersections between celebrity culture and food media have come to influence how many people think about feeding themselves and their families - and how often that task is complicated when it need not be.

Yoga - Mircea Eliade 1969

A full exposition of the theory and practices of Yoga, the history of its forms and its role in the evolution of Indian spirituality

Artificial Neural Networks as Models of Neural Information Processing Marcel van Gerven 2018-02-01

Modern neural networks gave rise to major breakthroughs in several research areas. In neuroscience, we are witnessing a reappraisal of neural network theory and its relevance for understanding information processing in biological systems. The research presented in this book provides various perspectives on the use of artificial neural networks as models of neural information processing. We consider the biological plausibility of neural networks, performance improvements, spiking neural networks and the use of neural networks for understanding brain function.

Renewable and Efficient Electric Power Systems - Gilbert M. Masters 2005-01-03

This is a comprehensive textbook for the new trend of distributed power generation systems and renewable energy sources in electric power systems. It covers the complete range of topics from fundamental concepts to major technologies as well as advanced topics for power consumers. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department -- to obtain the manual, send an email to ialine@wiley.com

Global geodynamics - 1983

Pulp Production and Processing - Valentin I. Popa 2020-07-06

This book presents the aspects of cellulose obtained in correlation with its integration into the new concept of biorefining. The authors detail the individual steps of pulp manufacture as well as properties and fiber characterization techniques for paper, cellulose derivatives and processing by-products. This book is of interest to scientists and advanced students working in the fields of renewable resources and biorefining.

Market Design for a High-Renewables Electricity System - Wadim Strielkowski 2020-09-04

The book provides assessments and evaluations of emerging trends in the electricity markets,

with a focus on high-renewables electricity systems. Specifically, various issues are examined, such as wind and solar energy, interconnection, smart meters, smart grids of the future (including their social implications), and peer-to-peer (P2P) electricity trading, which is closely connected to the principle of a sharing economy. The book also contemplates how the market design for a high-renewables electricity system would be different from the classical post-liberalization market design.

Flexible Housing Jeremy Till 2016-09-19

Flexible housing is housing that can adjust to the changing needs of the user and accommodate new technologies as they emerge. *Flexible Housing* by Jeremy Till and Tatjana Schneider examines the past, present and future of this important subject through over 160 international examples. Specially commissioned plans, printed to scale, together with over 200 illustrations and diagrams provide fascinating detail and allow direct visual comparisons to be made.

Combining history, theory and design the book explains the social and economic benefits that can be achieved and shows the various ways it has been and can be delivered. The book ends with an accessible guide to how flexible housing might be designed and constructed today to achieve adaptable and ultimately sustainable buildings. Housing designers, housing managers and students of architecture, construction and housing will find this book of immense value both as a comprehensive reference and design manual.

Memorial Tributes - National Academy of Engineering 2016-09-16

This is the 20th Volume in the series *Memorial Tributes* compiled by the National Academy of Engineering as a personal remembrance of the lives and outstanding achievements of its members and foreign associates. These volumes are intended to stand as an enduring record of the many contributions of engineers and engineering to the benefit of humankind. In most cases, the authors of the tributes are contemporaries or colleagues who had personal knowledge of the interests and the engineering accomplishments of the deceased. Through its members and foreign associates, the Academy carries out the responsibilities for which it was established in 1964. Under the charter of the

National Academy of Sciences, the National Academy of Engineering was formed as a parallel organization of outstanding engineers. Members are elected on the basis of significant contributions to engineering theory and practice and to the literature of engineering or on the basis of demonstrated unusual accomplishments in the pioneering of new and developing fields of technology. The National Academies share a responsibility to advise the federal government on matters of science and technology. The expertise and credibility that the National Academy of Engineering brings to that task stem directly from the abilities, interests, and achievements of our members and foreign associates, our colleagues and friends, whose special gifts we remember in this book.

Simultaneous EEG and FMRI - Markus Ullsperger 2010-05-28

This text is intended to aid researchers who plan to set up a simultaneous EEG-fMRI laboratory and those who are interested in integrating electrophysiological and hemodynamic data. As will be obvious from the different chapters, this is a dynamically developing field in which several approaches are being tested and compared.

Engineering for Sustainable Future - Annamária R. Várkonyi-Kóczy 2020-01-13

This book presents selected papers from the 18th International Conference on Global Research and Education, Inter-Academia 2019, held in Budapest and Balatonfüred on September 4-7, 2019. The main goal of the conference was to provide an international forum for reviewing and assessing recent trends in both fundamental and applied research. In addition to sparking interest in recent research findings, the conference aimed to strengthen cooperation among the partners of the Inter-Academia community in the pursuit of new theoretical and practical research advances. The book contains a selection of papers based on lectures presented at the Inter-Academia 2019 conference and covering hot and challenging topics in the fields of machine intelligence and computer science, modeling and simulation, measurement, monitoring, and identification, electronics and nanoelectronics, bio- and environmental engineering, chemical processes and material science, together with related

educational aspects. Accordingly, it offers a valuable resource for the global scientific community.

Object-Oriented Metrics in Practice - Michele Lanza 2007-05-16

Presents a novel metrics-based approach for detecting design problems in object-oriented software. Introduces an important suite of detection strategies for the identification of different well-known design flaws as well as some rarely mentioned ones.

Optimal Transport Methods in Economics - Alfred Galichon 2018-08-14

Optimal Transport Methods in Economics is the first textbook on the subject written especially for students and researchers in economics.

Optimal transport theory is used widely to solve problems in mathematics and some areas of the sciences, but it can also be used to understand a range of problems in applied economics, such as the matching between job seekers and jobs, the determinants of real estate prices, and the formation of matrimonial unions. This is the first text to develop clear applications of optimal transport to economic modeling, statistics, and econometrics. It covers the basic results of the theory as well as their relations to linear programming, network flow problems, convex analysis, and computational geometry.

Emphasizing computational methods, it also includes programming examples that provide details on implementation. Applications include discrete choice models, models of differential demand, and quantile-based statistical estimation methods, as well as asset pricing models. Authoritative and accessible, Optimal Transport Methods in Economics also features numerous exercises throughout that help you develop your mathematical agility, deepen your computational skills, and strengthen your economic intuition. The first introduction to the subject written especially for economists Includes programming examples Features numerous exercises throughout Ideal for students and researchers alike

Natural Selection and Social Theory - Robert Trivers 2002

From scholarly journals, Trivers (anthropology and biological sciences, Rutgers U.) has selected five of his papers published between 1971 and 1976, and another five published between 1982 and 2000. He has added accounts of how they were written, and short postscripts to bring readers up to date or at least point them to more recent work on the issues discussed. Annotation (c)2003 Book News, Inc., Portland, OR (booknews.com).

Negative Emissions Technologies and Reliable Sequestration - National Academies of Sciences, Engineering, and Medicine 2019-04-08

To achieve goals for climate and economic growth, "negative emissions technologies" (NETs) that remove and sequester carbon dioxide from the air will need to play a significant role in mitigating climate change. Unlike carbon capture and storage technologies that remove carbon dioxide emissions directly from large point sources such as coal power plants, NETs remove carbon dioxide directly from the atmosphere or enhance natural carbon sinks. Storing the carbon dioxide from NETs has the same impact on the atmosphere and climate as simultaneously preventing an equal amount of carbon dioxide from being emitted. Recent analyses found that deploying NETs may be less expensive and less disruptive than reducing some emissions, such as a substantial portion of agricultural and land-use emissions and some transportation emissions. In 2015, the National Academies published Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration, which described and initially assessed NETs and sequestration technologies. This report acknowledged the relative paucity of research on NETs and recommended development of a research agenda that covers all aspects of NETs from fundamental science to full-scale deployment. To address this need, Negative Emissions Technologies and Reliable Sequestration: A Research Agenda assesses the benefits, risks, and "sustainable scale potential" for NETs and sequestration. This report also defines the essential components of a research and development program, including its estimated costs and potential impact.