

Read Book Magnetic Heterostructures Advances And Perspectives In Spinstructures And Spintransport Springer Tracts In Modern Physics Pdf For Free

High-Speed Rail in Poland Mar 10 2021 The Railway Research Institute (Instytut Kolejnictwa) in Warsaw was established in 1951 and was, until 2000, part of the Polish State Railways (PKP). At present, it serves as an independent entity, it is subordinated to the minister responsible for transport. Since its inception, the Institute has been the centre of competence for technology, technique and organization of operation and services in rail transport, particularly in respect to innovation. One of its fundamental tasks also includes activities connected with safety which are carried out in close cooperation with the National Safety Authority, i.e. the Office of Rail Transport. At the same time the Institute participated in the process of upgrading and modernization of the rail network in Poland. Experience in high speed rail, gained as a result of international cooperation and basing on the effort to increase speed on railway lines in Poland (so far 200 km/h), is included in the monograph “Koleje Dużych Prędkości w Polsce” (High Speed Rail in Poland) published in 2015 for the benefit of the Polish reader. This monograph aims at reaching an international audience of experts so as to present Polish determinants of HSR implementation. In order to elaborate this monograph, apart from specialists from the Railway Research Institute, experts from other research and academic centres were invited. Not only presenting a wide range of problems connected with future construction of High Speed Lines in Polish conditions, but also a number of operational ones. The authors have created a reference work of universal character, solving problems in order to build and operate high speed rail systems in countries on a similar level of development as Poland. Features: providing requirements for design and upgrade of engineering works on High Speed Rail development information on restructuring and building railway lines for countries starting to develop a High Speed Rail system dealing with organizational, engineering, socioeconomic and economic demands for transport services and the formation of human resources for constructing and operating a High Speed Rails system. Presenting these problems on the international arena will facilitate future cooperation and application of world experience to create HSR in Poland and integrate the Polish HSR network into the international one.

Magnetic Heterostructures Nov 29 2022 Heterostructures consist of combinations of different materials, which are in contact through at least one interface. Magnetic heterostructures combine different physical properties which do not exist in nature. This book provides the first comprehensive overview of an exciting and fast developing field of research, which has already resulted in numerous applications and is the basis for future spintronic devices.

Women in Industrial and Systems Engineering Mar 22 2022 This book presents a diversity of innovative and impactful research in the field of industrial and systems engineering (ISE) led by women investigators. After a Foreword by Margaret L. Brandeau, an eminent woman scholar in the field, the book is divided into the following sections: Analytics, Education, Health, Logistics, and Production. Also included is a comprehensive biography on the historic luminary of industrial engineering, Lillian Moeller Gilbreth. Each chapter presents an opportunity to learn about the impact of the field of industrial and systems engineering and women’s important contributions to it. Topics range from big data analysis, to improving cancer treatment, to sustainability in product design, to teamwork in engineering education. A total of 24 topics touch on many of the challenges facing the world today and these solutions by women

researchers are valuable for their technical innovation and excellence and their non-traditional perspective. Found within each author's biography are their motivations for entering the field and how they view their contributions, providing inspiration and guidance to those entering industrial engineering.

Perspectives on Anger and Emotion Oct 17 2021 In this volume, Berkowitz develops the argument that experiential and behavioral components of an emotional state are affected by many processes: some are highly cognitive in nature; others are automatic and involuntary. Cognitive and associative mechanisms theoretically come into play at different times in the emotion-cognition sequence. The model he proposes, therefore, integrates theoretical positions that previously have been artificially segregated in much of the emotion-cognition literature. The breadth of the implications of Berkowitz's theory is also reflected in the diversity of this book's companion chapters. Written by researchers whose work focuses on both social cognition and emotion, these articles provide important insights and possible extensions of the "cognitive-neoassociationistic" conceptualization developed in the target article. Although each chapter is a valuable contribution in its own right, this volume, taken as a whole, is a timely and important contribution both to social cognition and to research and theory on emotion per se.

Social Psychological Perspectives on Stigma Jun 12 2021 The year 2013 marks the 50th anniversary of the publication Erving Goffman's landmark work, *Stigma: Notes on the Management of Spoiled Identity*. Through this edited volume, we commemorate the continuing contribution of Goffman's work on stigma to social psychology. As Goffman originally used the term, stigma implies some sort of negative deviance, or in his words, 'an undesired differentness from what we had anticipated.' Since Goffman's pioneering treatise, there have been thousands of articles published on different aspects of stigma. The accelerating volume of articles is testimony to the growing importance of stigma research, with almost three out of four of the stigma-related publications in the research literature appearing in the last 10 years. In this volume, a collection of up-and-coming and seasoned stigma researchers provide both theoretical insights and new empirical findings. The volume should be of interest to both established researchers and advanced students seeking to learn more about the depth and breadth of stigma research. This book was originally published as a special issue of *Basic and Applied Social Psychology*.

High-Speed Rail in Poland May 24 2022 The Railway Research Institute (Instytut Kolejnictwa) in Warsaw was established in 1951 and was, until 2000, part of the Polish State Railways (PKP). At present, it serves as an independent entity, it is subordinated to the minister responsible for transport. Since its inception, the Institute has been the centre of competence for technology, technique and organization of operation and services in rail transport, particularly in respect to innovation. One of its fundamental tasks also includes activities connected with safety which are carried out in close cooperation with the National Safety Authority, i.e. the Office of Rail Transport. At the same time the Institute participated in the process of upgrading and modernization of the rail network in Poland. Experience in high speed rail, gained as a result of international cooperation and basing on the effort to increase speed on railway lines in Poland (so far 200 km/h), is included in the monograph "Koleje Dużych Prędkości w Polsce" (High Speed Rail in Poland) published in 2015 for the benefit of the Polish reader. This monograph aims at reaching an international audience of experts so as to present Polish determinants of HSR implementation. In order to elaborate this monograph, apart from specialists from the Railway Research Institute, experts from other research and academic centres were invited. Not only presenting a wide range of problems connected with future construction of High Speed Lines in Polish conditions, but also a number of operational ones. The authors have created a reference work of universal character, solving problems in order to build and operate high speed rail systems in countries on a similar level of development as Poland. Features: providing requirements for design and upgrade of engineering works on High Speed Rail development information on restructuring and building railway lines for countries starting to develop a High Speed Rail system dealing with organizational, engineering, socioeconomic and economic demands for transport services and the formation of human resources for constructing and operating a High Speed Rails system. Presenting these problems on the international arena will facilitate future cooperation and application of world experience to create HSR in Poland and integrate the Polish HSR network into the international one.

Advances in Quality of Life Research 2001 Oct 05 2020 The knowledge base in the domains of quality of life, well-being, and subjective well-being is

continuing to grow at a rapid rate. In light of this growth, and the interest it reflects on the part of scholars, practitioners, and policy makers internationally, this book will play an important role in bringing scholars and students up to date on diverse topics and promoting and encouraging research in the field of quality-of-life (QOL) studies. Unlike most other similar publications quality of life studies is broadly construed to involve all of the social and health sciences. This volume has much to offer the reader. The papers reflect a diversity of disciplinary and methodological perspectives, it contains material on (a) the monitoring, assessing, and modelling of quality of life, (b) matters of policy, finance, marketing, and business, and (c) papers devoted to the determinants and correlates of well-being and quality of life.

Nonlinear Dynamics and Chaos May 12 2021 This textbook is aimed at newcomers to nonlinear dynamics and chaos, especially students taking a first course in the subject. The presentation stresses analytical methods, concrete examples, and geometric intuition. The theory is developed systematically, starting with first-order differential equations and their bifurcations, followed by phase plane analysis, limit cycles and their bifurcations, and culminating with the Lorenz equations, chaos, iterated maps, period doubling, renormalization, fractals, and strange attractors.

Large-Scale Ecology: Model Systems to Global Perspectives Jan 26 2020 Advances in Ecological Research is one of the most successful series in the highly competitive field of ecology. This thematic volume focuses on large scale ecology, publishing important reviews that contribute to our understanding of the field. Presents the most updated information on the field of large scale ecology, publishing topical and important reviews Provides all information that relates to a thorough understanding of the field Includes data on physiology, populations, and communities of plants and animals

Corporate Governance Jun 24 2022 Corporate Governance - Recent Advances and Perspectives is a comprehensive overview of recent developments in business, management and economics. Chapters cover such topics as agency theory and internationalization, Corporate Social Responsibility, COVID-19 and corporate governance performance, gender diversity and corporate governance, and much more.

Visualization and Processing of Tensor Fields Feb 18 2022 This book provides researchers an inspirational look at how to process and visualize complicated 2D and 3D images known as tensor fields. With numerous color figures, it details both the underlying mathematics and the applications of tensor fields.

High-performance Liquid Chromatography: Bonded silica phases for the separations of biopolymers by means of column liquid chromatography Aug 27 2022

Research-Based Perspectives on the Psychophysiology of Yoga Apr 10 2021 Yoga has evolved into a popular fitness practice across the globe. With the various schools of practice, it is imperative for practitioners to study both traditional texts and emerging scientific research in this area. Research-Based Perspectives on the Psychophysiology of Yoga is a unique reference source for the latest academic material on the physiological effects of yoga and cultivating a deeper understanding of yoga practice through the intersection of traditional texts and contemporary research. Including a range of topics such as occupational health, neurobiology, and women's health, this book is ideally designed for professionals, practitioners, students, educators, and academics interested in the effects, challenges, and benefits of yoga practice.

Biofuels Dec 31 2022

The Physics of Complex Systems (New Advances and Perspectives) Nov 17 2021 It is widely known that complex systems and complex materials comprise a major interdisciplinary scientific field that draws on mathematics, physics, chemistry, biology, and medicine as well as such social sciences as economics. The role of statistical physics in this new field has been expanding. Statistical physics has shown how phenomena and processes in different research areas that have long been assumed to be unrelated can have a common description. Through the application of statistical physics, methods developed for studying order phenomena in simple systems and processes have been generalized to more complex systems. The two conceptual pillars in this approach are scaling and universality. This volume focuses on recent advances and perspectives in the physics of complex systems and provides both an overview of the field and a more detailed examination of the new ideas and unsolved problems that are currently attracting the attention of researchers. This book should be a useful reference work for anyone interested in this area, whether beginning graduate student or advanced research professional. It provides up-to-date reviews on

cutting-edge topics compiled by leading authorities and is designed to both broaden the reader's competence within their own field and encourage the exploration of new problems in related fields.

Nematology Sep 03 2020

Emerging Electric Machines Jul 26 2022 This book is an introduction to the concepts and developments of emerging electric machines, including advances, perspectives, and selected applications. It is a helpful tool for practicing engineers concerned with emerging electric machines and their challenges and potential uses. Chapters cover such topics as electric machines with axial magnetic flux, asynchronous machines with dual power supply, new designs for electrical machines, and more.

Microbiology of Ethanol Fermentation in Sugarcane Biofuels Dec 27 2019 This book discusses the microbiology of fermentation for the production of bioethanol from sugarcane. Coverage includes how selected yeasts improve ethanol yield and productivity concerning recent advances at genomic, transcriptomic, and proteomic levels, how microorganisms (bacteria and yeasts) interact with each other in fermentation vats, and the application of microbiological monitoring methods with safety and precision. Special attention is given to antimicrobial strategies used to decrease contamination. The book is aimed at professionals working in the bioethanol industry, as well as students and researchers studying biological and biotechnological aspects of applied matters such as industrial microbiology and industrial fermentations. The English translation of this book from its Portuguese original manuscript was done with the help of artificial intelligence (machine translation by the service provider DeepL.com). A subsequent human revision of the content was done by the author. Covers common microbiological monitoring techniques; Reviews selected yeasts used in the bioethanol industry; Examines the role of bacteria and native yeasts in ethanolic fermentation and methods to control their growth.

New Advances in Grit Research: A Multidisciplinary Perspective Apr 30 2020

Advances in Gaucher disease Nov 05 2020

Potato Biology and Biotechnology Oct 29 2022 In the past 15-20 years major discoveries have been concluded on potato biology and biotechnology. Important new tools have been developed in the area of molecular genetics, and our understanding of potato physiology has been revolutionized due to amenability of the potato to genetic transformation. This technology has impacted our understanding of the molecular basis of plant-pathogen interaction and has also opened new opportunities for the use of the potato in a variety of non-food biotechnological purposes. This book covers the potato world market as it expands further into the new millennium. Authors stress the overriding need for stable yields to eliminate human hunger and poverty, while considering solutions to enhance global production and distribution. It comprehensively describes genetics and genetic resources, plant growth and development, response to the environment, tuber quality, pests and diseases, biotechnology and crop management. Potato Biology is the most valuable reference available for all professionals involved in the potato industry, plant biologists and agronomists. Offers an understanding of the social, economic and market factors that influence production and distribution. Discusses developments and useful traits in transgenic biology and genetic engineering. The first reference entirely devoted to understanding new advances in potato biology and biotechnology.

Drug-drug Interactions May 31 2020 This volume in *Advances in Pharmacology* focuses on all aspects of catecholamine research, from very basic to medical. It is broad based and covers many areas within physiology and medicine.

Annual Review of Health Care Management Jul 02 2020 Includes contributions from key academic thought leaders from around the world who examine how health reform impacts the macro, meso and micro level strategy and policy decisions of healthcare organizations.

Theoretical Chemistry Feb 01 2023

Teaching Translation and Interpreting Feb 06 2021 Translation is a phenomenon that affects us all on a daily basis, the more so now that dissemination of information is greatly enhanced by modern technology. However, there are no strict regulations on who can become a translator and what qualifications are

required. The contributors to this volume strive to find out whether translators are taught, self-taught or trained, what the teaching or training programmes are like and how they can be improved. This is a companion volume to *Teaching Translation and Interpreting: Challenges and Practices* (edited by Łukasz Bogucki, Cambridge Scholars Publishing, 2010). It contains papers delivered at two international conferences devoted to teaching translation and interpreting, organised in 2017, Poland, as well as invited contributions. The authors are translation and interpreting scholars and teachers from leading Polish and Ukrainian universities.

Cocaine Treatment Aug 03 2020

Perspective on Design Sep 15 2021 This book presents the outcomes of recent endeavors that are expected to foster significant advances in the areas of communication design, fashion design, interior design, and product design, as well as overlapping areas. The fourteen chapters highlight carefully selected contributions presented during the 6th EIMAD conference, held on February 22–23, 2018 at the School of Applied Arts, Campus da Talagueira, in Castelo Branco, Portugal. They report on outstanding advances that offer new theoretical perspectives and practical research directions in design, and which are aimed at fostering communication in a global, digital world, while also addressing key individual and societal needs.

Advances in Accounting Aug 15 2021

New Perspectives in Information Systems and Technologies, Volume 1 Jan 08 2021 This book contains a selection of articles from The 2014 World Conference on Information Systems and Technologies (WorldCIST'14), held between the 15th and 18th of April in Funchal, Madeira, Portugal, a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern Information Systems and Technologies research, technological development and applications. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Intelligent and Decision Support Systems; Software Systems, Architectures, Applications and Tools; Computer Networks, Mobility and Pervasive Systems; Radar Technologies; Human-Computer Interaction; Health Informatics and Information Technologies in Education.

Behavior and Environment Dec 07 2020 Active researchers in the areas of geography and psychology have contributed to this book. Both fields are capable of increasing our scientific knowledge of how human behavior is interfaced with the molar physical environment. Such knowledge is essential for the solution of many of today's most urgent environmental problems. Failure to constrain use of scarce resources, pollution due to human activities, creation of technological hazards and deteriorating urban quality due to vandalism and crime are all well known examples. The influence of psychology in geographical research has long been appreciated but it is only recently that psychologists have recognized they have something to learn from geography. In identifying the importance of two-way interdisciplinary communication, a psychologist and a geographer have been invited to each write a chapter in this book on a designated topic so that close comparisons can be drawn as to how the two disciplines approach the same difficulties. Since the disciplines are to some extent complementary, it is hoped that this close collaboration will have synergistic effects on the attempts of both to find solutions to environmental problems through an increased understanding of the many behavior-environment interfaces.

Amyotrophic Lateral Sclerosis Mar 02 2023 Recently, the implication of biocompatible nanotechnologies has set the stage for an evolutionary leap in diagnostic imaging and therapy. In this scope, the book presents a comprehensive overview of the possible causes, diagnostic criteria, and treatment assessments of amyotrophic lateral sclerosis, and presents the recent findings using innovative

Theoretical Chemistry Apr 03 2023

Advances in Modern Tourism Research Dec 19 2021 *Modern Advances in Tourism Research* provides a thorough assessment of state-of-the-art academic research in this field of economic science. The authors start by scoping the scene of tourism research. They progress to a comprehensive analysis of themes of particular interest for researchers and academics interested in the workings of the tourism markets, such as new analysis frameworks in tourism economics and

new operational tools in tourism research.

Protirelin Tartrate (TRH-T) Jan 20 2022

Advances in Alzheimer's and Parkinson's Disease Jul 14 2021 This volume contains the proceedings of the 2005 ADPD conference and is unique in that it deals not only with issues related individually to Alzheimer's disease and Parkinson's disease, but also with the integration of these and other related diseases. The most up-to-date techniques and research findings are illustrated in this volume, which covering topics from immunology, neuroscience, and pharmacology to genetics and molecular biology. Possible future developments in the treatment of Alzheimer's and Parkinson's Diseases are also covered.

Mathematics in Armenia, Advances and Perspectives Apr 22 2022

Nematology Sep 27 2022 This book summarizes the advances in nematology that have been made during the 20th century and provides perspectives for the development of nematology in the next century. Chapters comprise: plant diseases caused by nematodes; virus vectors; physiological interactions between nematodes and their host plants; taxonomy of insect parasitic nematodes; resistance to plant parasitic nematodes; crop rotation and other cultural practices as control strategies; use of antagonistic plants and natural products; biological control of nematodes by fungal antagonists; biological control of nematodes with bacterial antagonists; biological control of insects and other invertebrates; cost-benefits of nematode management through regulatory programmes; past and current uses of nematicides; and irradiation effects of plant parasitic nematodes.

Theoretical Chemistry May 04 2023

Advances in Personal Construct Psychology Feb 27 2020 This volume offers an authoritative review of leading scholarship in personal construct theory and related approaches, giving fresh analyses of problems such as the construction of selfhood, processes of meaning-making in substance abuse and attention deficit disorder, and the dynamics of insight. Methodologically oriented readers will find critical reappraisals of repertory grid measures, as well as new analytic strategies for textual analysis. Readers from a range of disciplines including clinical and counseling practice, organizational consultation, education, research design and methodology and the social sciences in general will find in this volume a sophisticated exploration of a host of constructionist and social constructionist concerns. Those include debates between realism and relativism, issues in dialectical and relational self-development, and psychotherapeutic strategies. The social construction of mental disorders and therapeutic interventions is also addressed.

Advances in Biosensors Mar 29 2020 There is a worldwide effort towards the development of bioanalytical devices that can be used for detection, quantification and monitoring of specific chemical species. In this context, biosensors represent an emerging trend in the diagnostics industry. A biosensor is a device that has a biological sensing element either intimately connected to or integrated within a transducer. The aim is to produce a digital electronic signal that is proportional to the concentration of a specific chemical or a set of chemicals. Biosensors are specific, rapid, cost-effective and easy to use devices that can be employed with minimal sample treatment. Biosensors have applications in many areas such as biotechnology, healthcare, pollution monitoring, food and agriculture product monitoring, the pharmaceuticals industry and defense. This reference text is devoted to the principles and applications of biosensors and meets the needs of academic institutes, research laboratories and the rapidly developing biosensor industry. Discusses novel ways that can be used to fabricate biosensors for a variety of applications Biosensors have applications in many scientific areas Contributors are experts in their respective fields of research

digitaltutorials.jrn.columbia.edu