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GIOVANNA HESTER

The Academic Portfolio John Wiley & Sons

This new book investigates the relationship of film to history, power, memory, and cultural citizenship. The book is concerned with two central issues: firstly, the participation of film and filmmakers in articulating and challenging projects of modernity; and, secondly, the role of film in shaping particular understandings of self and other to evoke collective notions of belonging. These issues call for interdisciplinary and multi-layered analyses that are ideally met through dialogue across place, time, identities and genres. The contributors to this volume enable this dialogue by considering the ways in which cultural expression and identity expressed through film serve to create notions of belonging, group identity, and entitlement within modern societies.

Rhythmic Structure in Iranian Music John Wiley & Sons

Process Intensification is a comprehensive textbook and treats the theory of process intensification design, and all innovation steps from idea generation to commercial implementation, and all focused on contributing to the UN Sustainable Development Goals. This book covers the 'hard' elements of design, modelling, and experimental validations and the 'soft' elements, values of engineers, interests of stakeholders and beliefs of society.

The Bipolar Book World Scientific

The world's atmosphere is a common resource. Air quality, along with energy, transportation, and climate change have significant impacts on our lives and this book helps readers understand the changes happening at the nexus of these areas, as they relate to reducing greenhouse gas emissions and improving air quality. Discussing the transitions to electric vehicles, solar and wind energy for electricity generation, battery developments, smart grids and electric power management, and progress in the electrification of agricultural technology, it also provides the latest information in the context of the United Nations sustainable development goals and the Paris Agreement on Climate Change. Features: Includes content on how to improve urban air quality in large cities and urban environments. Effectively addresses the nexus of energy, transportation, air quality, climate change and health. Discusses innovative concepts at the nexus of renewable energy, smart grid, electric vehicles, and electric power management. Describes recent progress in meeting the goals of the Paris Agreement on Climate Change and the benefits of reducing greenhouse gas emissions. Written for a wide audience by world experts in sustainability. Reducing Greenhouse Gas Emission and Improving Air Quality: Two Interrelated Global Challenges, is an invaluable book for professionals and academics at the center of changes relating to solar and wind energy, electric vehicles, and charging infrastructure, including government officials, community leaders, researchers, students, and interested citizens. It is also an excellent text for classes that address sustainability, particularly for those focused on transportation and energy.

Journal of the Chinese Chemical Society ... Springer

The definitive research paper guide, Writing Research Papers combines a traditional and practical approach to the research process with the latest information on electronic research and presentation. This market-leading text provides students with step-by-step guidance through the research writing process, from selecting and narrowing a topic to formatting the finished document. Writing Research Papers backs up its instruction with the most complete array of samples of any writing guide of this nature. The text continues its extremely thorough and accurate coverage of citation styles for a wide variety of disciplines. The fourteenth edition maintains Lester's successful approach while bringing new writing and documentation updates to assist the student researcher in keeping pace with electronic sources.

The Future of Transdisciplinary Design BoD - Books on Demand

In the nanotechnology era much of the enhanced speed and effectiveness of equipments, techniques or material is due to their downsizing to nanometric scale. One such enhancement has been occurring in the field of nanoencapsulation. Nanoencapsulation of bioactive materials is a multidisciplinary approach to improve the efficiency and decrease the side effects of drugs, vaccines, cosmetics, slimming agents and nutraceuticals. Nanoliposomes are among the best encapsulation and controlled release systems with the ability to incorporate and protect various types of bioactives as well as deliver them to the target site inside the human or animal body. This book is an ideal source for learning about, or teaching lipid-based carrier systems, including nanoliposomes, archaeosomes, immunoliposomes, virosomes, ultradeformable vesicles and stealth liposomes from basics to post-graduate levels. Several methods of preparation and characterization of these carriers along with their in vitro and in vivo behavior are explained. Application of the nanocarriers in various areas including pharmaceuticals, biotechnology, gene delivery and therapy, food technology and origin of life are covered. Particular emphasis is given to the manufacture of carrier systems without employing potentially harmful substances (e.g. volatile solvents or detergents) on small and large scale. The book also contains a unique technical glossary which is especially useful for those new to the field.

Nonlinear Analysis Courier Corporation

This important book covers district energy and CHP technologies, as well as systems that combine them. It focuses on modelling, analysis and optimization, of cogeneration-based district energy systems

Writing Research Papers Springer Nature

Contents: Fixed Point Theory and Nonlinear Problems (Th Rassias)Global Linearization Iterative Methods and Nonlinear Partial Differential Equations III (M Altman)On Generalized Power Series and Generalized Operational Calculus and Its Application (M Al-Bassam)Multiple Solutions to Parametrized Nonlinear Differential Systems from Nielsen Fixed Point Theory (R Brown)The topology of Ind-Affine Sets (P Cherenack)Almost Approximately Polynomial Functions (P Cholewa)Cohomology Classes and Foliated Manifolds (M Craioveanu & M Puta)Bifurcation and Nonlinear Instability in Applied Mathematics (L Debnath)The Stability of Weakly Additive Functional (H Drijevic)Index Theory for G-Bundle Pairs with Applications to Borsuk-Ulam Type Theorems for G-Sphere Bundles (E Fadell & S Husseini)Nonlinear Approximation and Moment Problem (J S Hwang & G D Lin)Periods in Equicontinuous Topological Dynamical Systems (A Iwanik et al.)Continuation Theorems for Semi-Linear Equations in Banach Spaces: A Survey (J Mawhin & K Rybakowski)On Contractible Self-Mappings (P Meyers)Normal Structures and Nonexpansive Mappings in Banach Spaces (J Nelson et al.): Survey on Uniqueness and Classification Theorems for Minimal Surfaces (Th Rassias)Contractive Definitions (B Rhoades)On KY Fan's Theorem and Its Applications (S Singh)Fixed Points of Amenable Semigroups of Differentiable Operators (P Soardi)Research Problems on Nonlinear Equations (Th Rassias) Readership: Mathematicians and applied scientists. Keywords:Nonlinear Analysis;Nonlinear Partial Differential Equations III;Polynomial Functions;Cohomology Classes;Foliated Manifolds;Topological Dynamical Systems;Minimal Surfaces;Differentiable Operators;Nonlinear Equations

Theory of Wing Sections Springer Science & Business Media

This comprehensive book focuses squarely on academic portfolios, which may prove to be the most innovative and promising faculty evaluation and development technique in years. The authors identify key issues, red flag warnings, and benchmarks for success, describing the what, why, and how of developing academic portfolios. The book includes an extensively tested step-by-step approach to creating portfolios and lists 21 possible portfolio items covering teaching, research/scholarship, and service from which faculty can choose the ones most relevant to them. The thrust of this book is unique: It provides time-tested strategies and proven advice for getting

started with portfolios. It includes a research-based rubric grounded in input from 200 faculty members and department chairs from across disciplines and institutions. It examines specific guiding questions to consider when preparing every subsection of the portfolio. It presents 18 portfolio models from 16 different academic disciplines. Designed for faculty members, department chairs, deans, and members of promotion and tenure committees, all of whom are essential partners in developing successful academic portfolio programs, the book will also be useful to graduate students, especially those planning careers as faculty members.

Chalcidoidea of Iran IET

The scope of this book is limited to heuristics, metaheuristics, and approximate methods and algorithms as applied to planning and scheduling problems. While it is not possible to give a comprehensive treatment of this topic in one book, the aim of this work is to provide the reader with a diverse set of planning and scheduling problems and different heuristic approaches to solve them. The problems range from traditional single stage and parallel machine problems to more modern settings such as robotic cells and flexible job shop networks. Furthermore, some chapters deal with deterministic problems while some others treat stochastic versions of the problems. Unlike most of the literature that deals with planning and scheduling problems in the manufacturing and production environments, in this book the environments were extended to nontraditional applications such as spatial scheduling (optimizing space over time), runway scheduling, and surgical scheduling. The solution methods used in the different chapters of the book also spread from well-established heuristics and metaheuristics such as Genetic Algorithms and Ant Colony Optimization to more recent ones such as Meta-RaPS.

Springer Handbook of Experimental Fluid Mechanics John Wiley & Sons

Accompanying DVD-ROM contains ... "all chapters of the Springer Handbook."--Page 3 of cover.

Handbook of the Philosophy of Medicine Springer

FUNDAMENTALS OF STRUCTURAL DYNAMICS From theory and fundamentals to the latest advances in computational and experimental modal analysis, this is the definitive, updated reference on structural dynamics. This edition updates Professor Craig's classic introduction to structural dynamics, which has been an invaluable resource for practicing engineers and a textbook for undergraduate and graduate courses in vibrations and/or structural dynamics. Along with comprehensive coverage of structural dynamics fundamentals, finite-element-based computational methods, and dynamic testing methods, this Second Edition includes new and expanded coverage of computational methods, as well as introductions to more advanced topics, including experimental modal analysis and "active structures." With a systematic approach, it presents solution techniques that apply to various engineering disciplines. It discusses single degree-of-freedom (SDOF) systems, multiple degrees-of-freedom (MDOF) systems, and continuous systems in depth; and includes numeric evaluation of modes and frequency of MDOF systems; direct integration methods for dynamic response of SDOF systems and MDOF systems; and component mode synthesis. Numerous illustrative examples help engineers apply the techniques and methods to challenges they face in the real world. MATLAB® is extensively used throughout the book, and many of the .m-files are made available on the book's Web site. **Fundamentals of Structural Dynamics, Second Edition** is an indispensable reference and "refresher course" for engineering professionals; and a textbook for seniors or graduate students in mechanical engineering, civil engineering, engineering mechanics, or aerospace engineering.

High Resolution X-Ray Diffractometry And Topography Elsevier

This book was the end product of life experiences, thoughts and intellectual wanderings of the author, who through his career and for the last twenty years was always serving all the three aspects of a Psychiatrist: He is a clinician, a researcher and an academic teacher. The book includes a comprehensive history of Psychiatry since antiquity and until today, with an emphasis not only on main events but also specifically and with much detail and explanations, on the chain of events that led to a particular development. At the center of this work is the question 'What is mental illness?' and 'Does free will exist?'. These are questions which tantalize Psychiatrists, neuroscientists, psychologists, philosophers, patients and their families and the sensitive and educated lay persons alike. Thus, the book includes a comprehensive review and systematic elaboration on the definition and the concept of mental illness, a detailed discussion on the issue of free will as well as the state of the art of contemporary Psychiatry and the socio-political currents it has provoked. Finally the book includes a description of the academic, social and professional status of Psychiatry and Psychiatrists and a view of future needs and possible developments. A last moment addition was the chapter on conspiracy theories, as a consequence of the experience with the social media and the public response to the COVID-19 outbreak which coincided with the final stage of the preparation of the book. Their study is an excellent opportunity to dig deep into the relation among human psychology, mental health, the society and politics and to swim in intellectually dangerous waters.

Seismic Analysis of Structures John Wiley & Sons

The book summarises the outcome of a priority research programme: 'Analysis, Modelling and Computation of Multiphase Flows'. The results of 24 individual research projects are presented. The main objective of the research programme was to provide a better understanding of the physical basis for multiphase gas-liquid flows as they are found in numerous chemical and biochemical reactors. The research comprises steady and unsteady multiphase flows in three frequently found reactor configurations, namely bubble columns without internals, airlift loop reactors, and aerated stirred vessels. For this purpose new and improved measurement techniques were developed. From the resulting knowledge and data, new and refined models for describing the underlying physical processes were developed, which were used for the establishment and improvement of analytic as well as numerical methods for predicting multiphase reactors. Thereby, the development, lay-out and scale-up of such processes should be possible on a more reliable basis.

Polyolefin Reaction Engineering Springer Science & Business Media

This volume highlights the latest developments and trends in advanced materials and their properties, the modeling and simulation of non-classical materials and structures, and new technologies for joining materials. It presents the developments of advanced materials and respective tools to characterize and predict the material properties and behavior.

Psychiatry CRC Press

Concise compilation of subsonic aerodynamic characteristics of NACA wing sections, plus description

of theory. 350 pages of tables.

Low Reynolds Number Springer Nature

This book develops concepts and a methodology for a rational description of the organization of three-dimensional flows considering, in particular, the case where the flow is the place of separations. The descriptive analysis based on the critical point theory of Poincaré develops conventional but rather unfamiliar considerations from aerodynamicists, who face the understanding of complex flows including multiple separation lines and vortices. These problems concern industrial sectors where aerodynamics plays a key role, such as aerospace, ground vehicles, buildings, etc. Contents 1. Skin Friction Lines Pattern and Critical Points. 2. Separation Streamsurfaces and Vortex Structures. 3. Separated Flow on a Body. 4. Vortex Wake of Wings and Slender Bodies. 5. Separation Induced by an Obstacle or a Blunt Body. 6. Reconsideration of the Two-Dimensional Separation. 7. Concluding Remarks. About the Authors Jean Détery is a Supaero (French National Higher School of Aeronautics and Space) engineer who has worked at Onera (French national aerospace research center) since 1964. He has participated in several major French and European aerospace programs, is the author of many scientific publications, and has occupied various teaching positions particularly at Supaero, the University of Versailles-Saint-Quentin, Ecole polytechnique in France and "La Sapienza" University in Rome, Italy. He is currently emeritus adviser at Onera.

Operation of Distributed Energy Resources in Smart Distribution Networks John Wiley & Sons

This volume consists of papers selected from the proceedings of the Fifth International Symposium on Applications of Laser Techniques to Fluid Mechanics, held at the Calouste Gulbenkian Foundation in Lisbon from 9 to 12 July, 1990. Relative to previous meetings in the Lisbon series the scope of this symposium was broadened by expanding the topical coverage to include all laser techniques used in fluid mechanics. This change recognized the trend amongst experimental fluid dynamicists to employ laser techniques for the measurement of many different quantities, including concentration, temperature, particle size, and velocity, and the need for researchers to have a forum in which to communicate their work and share their common interests. The Fifth Symposium contained twenty-three sessions of formal presentations and a lively Open Forum session. In addition, Dr. H. J. Pfeiffer organized a special Workshop on the Use of Computers in Flow Measurements which contained five sessions on frequency domain processors, correlations, special detectors, and biasing.

Polyoxometalate-Based Hybrids and their Applications CRC Press

Comprehensively covers geothermal energy systems that utilize ground energy in conjunction with heat pumps to provide sustainable heating and cooling The book describes geothermal energy systems that utilize ground energy in conjunction with heat pumps and related technologies to provide heating and cooling. Also discussed are methods to model and assess such systems, as well as means to determine potential environmental impacts of geothermal energy systems and their thermal interaction. The book presents the most up-to-date information in the area. It provides material on a range of topics, from thermodynamic concepts to more advanced discussions of the renewability and sustainability of geothermal energy systems. Numerous applications of such systems are also provided. **Geothermal Energy: Sustainable Heating and Cooling Using the Ground** takes a research orientated approach to provide coverage of the state of the art and emerging trends, and includes numerous illustrative examples and case studies. Theory and analysis are emphasized throughout, with detailed descriptions of models available for vertical and horizontal geothermal heat exchangers. Key features: Explains geothermal energy systems that utilize ground energy in conjunction with heat pumps to provide heating and cooling, as well as related technologies such as thermal energy storage. Describes and discusses methods to model and analyze geothermal energy systems, and to determine their potential environmental impacts and thermal interactions. Covers various applications of geothermal energy systems. Takes a research orientated approach to provide coverage of the state of the art and emerging trends. Includes numerous illustrative examples and case studies. The book is key for researchers and practitioners working in geothermal energy, as well as graduate and advanced undergraduate students in departments of mechanical, civil, chemical, energy, environmental, process and industrial engineering.

Geothermal Energy CABI

The superfamily Chalcidoidea (Insecta, Hymenoptera) contains in excess of 26,000 described species worldwide, but with an estimated total diversity of more than 500,000 species the vast majority of species have yet to be discovered and described. Most chalcidoid species are parasitoids of hosts in at least 12 different insect orders, attacking the egg, larval or pupal stages, though phytophagy and other life cycles and hosts are known. Iran is the 18th largest country in the world and has a rich and diverse insect fauna, including Chalcidoidea. It is extremely interesting from a biogeographic point of view, and a paradise for an entomologist. This book summarizes the results of all prior research concerning species diversity of Iranian Chalcidoidea, including host records and distribution records by province in Iran as well as world distribution by country for 1,351 species of Chalcidoidea recorded from Iran through the end of 2019.

Heuristics, Metaheuristics and Approximate Methods in Planning and Scheduling Walter de Gruyter GmbH & Co KG

Operations Research: A Practical Introduction is just that: a hands-on approach to the field of operations research (OR) and a useful guide for using OR techniques in scientific decision making, design, analysis and management. The text accomplishes two goals. First, it provides readers with an introduction to standard mathematical models and algorithms. Second, it is a thorough examination of practical issues relevant to the development and use of computational methods for problem solving. Highlights: All chapters contain up-to-date topics and summaries A succinct presentation to fit a one-term course Each chapter has references, readings, and list of key terms Includes illustrative and current applications New exercises are added throughout the text Software tools have been updated with the newest and most popular software Many students of various disciplines such as mathematics, economics, industrial engineering and computer science often take one course in operations research. This book is written to provide a succinct and efficient introduction to the subject for these students, while offering a sound and fundamental preparation for more advanced courses in linear and nonlinear optimization, and many stochastic models and analyses. It provides relevant analytical tools for this varied audience and will also serve professionals, corporate managers, and technical consultants.

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