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Structure and Dynamics of Electronic Excited States

Wiley

The American Board of Psychiatry and Neurology: Looking Back and Moving Ahead honors the 75th anniversary of the ABPN by reviewing the Board's history and evolution, describing the subspecialties and the role that certification plays in their practice, explaining the current status of the ABPN's programs, and exploring future directions. A substantive contribution to our understanding of the historical and contemporary issues that confront the Board, the profession, and the community of practitioners, this book Provides in-depth chapters on the neurological subspecialties, including child neurology, clinical neurophysiology, vascular neurology, neuromuscular medicine, and neurodevelopmental disabilities. Explores the psychiatric subspecialties in detailed chapters on addiction psychiatry, child and adolescent psychiatry, geriatric psychiatry, psychosomatic medicine, and forensic psychiatry. Describes the evolution and ongoing management of the

credentialing process, including exam development, administration, and scoring. Addresses the critical importance of ethical standards and their integral role in certification, licensing, and practice. Discusses the future of board certification and the importance of recertification and lifelong learning. With chapters written primarily by current or former ABPN directors or senior staff members, The American Board of Psychiatry and Neurology: Looking Back and Moving Ahead will be invaluable to candidates, training programs, and institutions preparing for certification; diplomates seeking to maintain certification; and subspecialists desiring to understand the role of certification in their subspecialty.

Studies in Perception and Action XI Springer Science & Business Media

In the domain of public policy on pharmaceuticals, protecting public health requires a dual strategy: robust regulation on the one hand and stimulation of competitiveness and innovation on the other. Regulation must be robust to ensure that only medicines meeting exact standards of safety, quality and efficacy are authorised for human and animal use. At the same time competitiveness and innovation must be stimulated. Without innovation in pharmaceuticals, the incurable diseases of today will remain incurable. Competitiveness drives innovation and innovation saves lives. Increased competitiveness of the pharmaceutical sector will not only better protect public health, but will also create high quality jobs and create growth. In this context the implementation of the G10 recommendations, particularly regarding the pricing and reimbursement of medicines by Member States, remains a considerable challenge. Structural Dynamics of Electronic and Photonic Systems Springer Science & Business Media

The proposed book will offer comprehensive and versatile methodologies and recommendations on how to determine dynamic characteristics of typical micro- and opto-electronic structural elements (printed circuit boards, solder joints, heavy devices, etc.) and how to design a viable and reliable structure that would be able to withstand high-level dynamic loading. Particular attention will be given to portable devices and systems designed for operation in harsh environments (such as automotive, aerospace, military, etc.) In-depth discussion from a mechanical engineer's viewpoint will be conducted to the key components' level as well as the whole device level. Both theoretical (analytical and computer-aided) and experimental methods of analysis will be addressed. The authors will identify how the failure control parameters (e.g. displacement, strain and stress) of the vulnerable components may be affected by the external vibration or shock loading, as well as by the internal parameters of the infrastructure of the device. Guidelines for material selection, effective protection and test methods will be developed for engineering practice.

Supersymmetry in Mathematics and Physics Routledge

The emergence of civil aviation as a means of mass transportation is primarily due to the large scale construction of jet airplanes in the past 30 years or so. A large number of these jet airplanes is currently operating at or beyond their designed fatigue lives. Thus, the structural integrity of these aging airplanes has become an issue of major concern to all nations of the world. To bring the needed technical and research focus on the issues involved in the life-enhancement and safety-assurance of aging airplanes, the Federal Aviation Administration sponsored a symposium in Atlanta, GA, USA, during 20-22 March 1990. This symposium, under the title "International Symposium on Structural Integrity of Aging Airplanes" was organized jointly by the Georgia Institute of Technology (Center for Computational

Mechanics) and the Transportation Systems Center (Cambridge, MA) of the U.S. Department of Transportation. Industrial and academic experts from several countries in North America, Europe and Asia, were invited to discuss their experiences and proposed solutions. This monograph contains the original papers that represent the expanded and edited versions of the talks presented at this symposium. This book aims to bring the collective experience, from across the world, with problems related to the structural integrity of aging airplanes to the attention of the professional and research community at large - in the hope that it may stimulate further fruitful research on this important topic of global concern.

The High Energy Solar Corona: Waves, Eruptions, Particles Springer Science & Business Media

"In the early 1920s, a group of Dutch artists and architects influenced by some of the ideas of Dada, formed a movement called De Stijl (The Style). The Story of De Stijl presents work by Piet Mondrian, Theo van Doesburg, Gerrit Rietveld, and the other members of this influential group, as well as archival photographs of the artists. The authors - experts in this seminal abstract style that encompassed painting, sculpture, architecture, interior design, and more - explore the evolution of the movement not just through traditional art-historical analysis, but also through anecdotes, conversations, articles, and other contemporary sources. With more than 325 colour illustrations, The Story of De Stijl makes clear the lasting importance and influence of this once avant-garde movement"-- Publicaciones Arquitectura y Arte.

[The Complete Correspondence of Michael Faraday](#) Springer

These days human beings have a profound influence on aspects of the planetary ecosystem, e.g. on climate change and biodiversity, to name only two. This manual is intended to help practitioners, who are dealing with human-based rural and urban settlement-ecosystems, in the key steps towards their realization (design, implementation, and operation) and helpful for all, who are concerned about ensuring their practical sustainability. The ecosystem-approach is holistic and integrative, encompassing various disciplines like architecture, landscape architecture, environmental engineering, social sciences, life sciences, ecology, and management. It also considers issues such as energy-savings, ecological cycles, reuse, natural resources, socio-cultural background, real participation, and holistic quality management. Thus it not

only explains the general concept, the steps of realization and the respective involved stakeholders, but also gives hints and tools for practitioners. The information, recommendations and tools are directed to the following target groups, among others: • Local planning authorities (giving hints for the procedure and the involved stakeholders) • Designers (holistic approach, procedures, tools) • Regulatory bodies, licensing and financing authorities (requirements for approach and procedures) • Construction and implementing firms and institutions (recommendations, tools) • Operating bodies (hints for operation, tools) The experiences are based on a joint German-Ghanaian program at Valley View University, the biggest private university in Ghana, intended to help realize the vision of a truly holistic ecological university. It was financed originally by the German Ministry of Education and Research and recently by the German Ministry for the Environment in the frame of the Climate Change Initiative of the Federal Government of Germany.

Structural Integrity of Aging Airplanes Springer Science & Business Media

This book presents the latest findings on how plants respond physiologically to sulfur in their environment. It combines an ecosystems approach with new insights at the molecular and biochemical level. Key areas are explored to assess the functions and implications of this essential plant nutrient in a range of natural, semi-natural and anthropogenic environments. The result is an important new reference on the relationships between plants and sulfur.

Technology Transfer in Biotechnology

Royal Society of Chemistry

With contributions by numerous experts

The Significance of Faecal Indicators in Water Springer

The basic idea, simple and revolutionary at the same time, to replace the concept of a point particle with a one-dimensional string, has opened up a whole new field of research. Even today, four decades later, its multifaceted consequences are still not fully conceivable. Up to now string theory has offered a new way to view each particle: as different excitations of the same fundamental object. It has celebrated success in discovering the graviton in its spectrum, and it has naturally led scientists to posit space-times with more than four dimensions—which in turn has triggered

numerous interesting developments in fields as varied as condensed matter physics and pure mathematics. This book collects pedagogical lectures by leading experts in string theory, introducing the non-specialist reader to some of the newest developments in the field. The carefully selected topics are at the cutting edge of research in string theory and include new developments in topological strings, or AdS/CFT dualities, as well as newly emerging subfields such as doubled field theory and holography in the hydrodynamic regime. The contributions to this book have been selected and arranged in such a way as to form a self-contained, graduate level textbook.

[Sustainable Rural and Urban Ecosystems: Design, Implementation and Operation](#) Springer

This volume of the Lecture Notes in Computer Science series provides a comprehensive, state-of-the-art survey of recent advances in string processing and information retrieval. It includes invited and research papers presented at the 10th International Symposium on String Processing and Information Retrieval, SPIRE 2003, held in Manaus, Brazil. SPIRE 2003 received 54 full submissions from 17 countries, namely: - gentina(2), Australia(2), Brazil(9),Canada(1),Chile (4),Colombia(2),Czech Republic (1), Finland (10), France (1), Japan (2), Korea (5), Malaysia (1), P- tugal (2), Spain (6), Turkey (1), UK (1), USA (4) – the numbers in parentheses indicate the number of submissions from that country. In the nontrivial task of selecting the papers to be published in these proceedings we were fortunate to count on a very international program committee with 43 members, representing all continents but one. These people, in turn, used the help of 40 external referees. During the review process all but a few papers had four reviews instead of the usual three, and at the end 21 submissions were accepted to be published as full papers, yielding an acceptance rate of about 38%. An additional set of six short papers was also accepted. The technical program spans over the two well-defined scopes of SPIRE (string processing and information retrieval) with a number of papers also focusing on important application domains such as bioinformatics. SPIRE 2003 also features two invited speakers: Krishna Bharat (Google, Inc.) and Joa?o Meidanis (State Univ. of Campinas and Scylla Bioinformatics).

The Physics of Phase Space Springer
Increasing concern with fuel consumption leads to widespread interest in lightweight structures for transportation vehicles. Several competing technologies are available for the structural connections of these structures, namely welding, mechanical fastening / riveting, and adhesive technologies. Arranged in a single volume, this work is to presents

state-of-the-art discussions of those aspects and processes presenting greater novelty whilst simultaneously keeping wide applicability potential and interest. The topics chosen have the common feature of being of currently applied in lightweight structures, and one of the characteristics of this work is bringing together relevant state-of-the-art information usually presented in separate publications specializing in a single technology. The book provides discussions and examples of concrete applications, so that it appeals to researchers and designers and engineers involved in the design and fabrication of lightweight structures.

Sulfur in Plants Springer

It is becoming crucial to accurately estimate and monitor speech quality in various ambient environments to guarantee high quality speech communication. This practical hands-on book shows speech intelligibility measurement methods so that the readers can start measuring or estimating speech intelligibility of their own system. The book also introduces subjective and objective speech quality measures, and describes in detail speech intelligibility measurement methods. It introduces a diagnostic rhyme test which uses rhyming word-pairs, and includes: An investigation into the effect of word familiarity on speech intelligibility. Speech intelligibility measurement of localized speech in virtual 3-D acoustic space using the rhyme test. Estimation of speech intelligibility using objective measures, including the ITU standard PESQ measures, and automatic speech recognizers.

The Challenge of Change: Dealing with the Legacy of the Modern Movement

Springer Science & Business Media

Contents: L. Banfi ? A. Basso ? R. Riva: Synthesis of Heterocycles Through Classical Ugi and Passerini Reactions Followed by Secondary Transformations Involving One or Two Additional Functional Groups.- V.A. Chebanov ? K. A. Gura ? S.M. Desenko: Aminoazoles as Key Reagents in Multicomponent Heterocyclizations.- Y. Huang ? K. Khoury ? A. Dömling: Piperazine Scaffolds by Multicomponent 3 Reactions: The Piperazine Space 4 in MCR Chemistry 5 Deep MCR Piperazine Space.- N. Elders ? E. Ruijter ? V.G. Nenajdenko ? R.V.A. Orru: ?-Acidic Isocyanides in Multicomponent Chemistry.- A. Cukalovic ? J.-C.M.R. Monbaliu ? C.V. Stevens: Microreactor Technology as an Efficient Tool for Multicomponent Reactions.- L.A. Wessjohann ? C.R.B. Rhoden ? D.G. Rivera ? O. Eichler Vercillo: Cyclic Peptidomimetics and Pseudopeptides from Multicomponent Reactions.- M. del Mar Sanchez Duque ? C. Allais ? N. Isambert ? T. Constantieux ? J. Rodriguez: β -Diketo Building Blocks for MCRs-Based Syntheses of Heterocycles

The Role of Coherent Structures in Modelling Turbulence and Mixing Royal

Society of Chemistry

This collection is dedicated to the 70th jubilee of Yu. N. Savchenko, and presents experimental, theoretical, and numerical investigations written by an international group of well-known authors. The contributions solve very important problems of the high-speed hydrodynamics, such as supersonic motion in water, drag diminishing, dynamics and stability of supercavitating vehicles, water entry and hydrodynamic performances of hydrofoils, ventilated cavities after a disc and under the ship bottom. The book is written for researchers, scientists, engineers, and students interested in problems of hydromechanics.

Strings and Fundamental Physics Springer Science & Business Media

Conservation of architecture - and the conversation of Modern architecture in particular - has assumed new challenges. Rather than attempting to return a Modern building to its resumed original state, the challenge of these proceedings is to revalue the essence of the manifold manifestations of Modern architecture and redefine its meanings in a rapidly changing world of digital revolution, worldwide mobility and environmental awareness. This volume aims to provide a variety of platforms for the exchange of ideas and experience. A large, international group of architects, historians, scholars, preservationists and other parties involved in the processes of preserving, renovating and transforming Modern buildings has been invited to investigate the paradox of the Modern monument, and to reflect on the manifold dilemmas of change and continuity. The general theme is elaborated through five sub-themes. The sub-theme 'Change and Continuity' addresses the tensions between change and continuity from a historical-theoretical perspective. 'Restructuring Cities and Landscapes' focuses on the larger scale of city and landscape, while 'Shifts in Programme and Flexibility' draws attention to the scale of the building or building complex, and questions limits of re-use and flexibility. The fourth sub-theme deals with education and the fifth sub-theme 'Progress, Technology and Sustainability' considers specific issues of techniques and materials.

The Nature of Biological Systems as Revealed by Thermal Methods Springer Science & Business Media

The economy is examined by the authors as a complex interactive system. The emphasis is on the direct interaction between agents rather than on the indirect and autonomous interaction through the market mechanism. Contributions from economists and physicists emphasise the consequences for aggregate

behaviour of the interaction between agents with limited rationality. Models of financial markets which exhibit many of the stylised facts of empirical markets such as bubbles, herd behaviour and long memory are presented. This includes contributions on bargaining, buyer-seller relations, the evolution of economic networks and several aspects of macro-economic behaviour. This book will be of interest to all those interested in the foundations of collective social and economic behaviour and in particular, to those concerned with the dynamics of market behaviour and recent applications of physics to economics.

Structural Connections for Lightweight Metallic Structures Ben Uri Gallery & Museum

The Nature of Biological Systems as Revealed by Thermal Methods is a guide for experiments using thermal methods. The Editor has used his many years of experience to create a unique resource that will enable others with a less mathematical background, to realize the beauty and power of this tool and to gain a better understanding of biological problems. Biological calorimetry (and of course thermal analysis) is of increasing interest and is not covered thoroughly in other resources. The methods presented are macroscopic, for the rather inhomogeneous material (micromethods are often not possible or not pertinent). This book will help beginners in the field of thermal analysis or calorimetry understand the principles of thermodynamics being applied to biological systems. Biological systems are highly organized and very complex. The water and the different types of weak interactions among the macromolecules make the interpretation of thermal events very difficult. This book includes examples how to handle such problems. The Nature of Biological Systems as Revealed by Thermal Methods is unique in that it: -has a broad spectrum, from molecules and biochemistry, tissues, and food, to whole organisms; -combines practical problems (food processing, quality control, thermal denaturation of proteins, plants and small insects, etc.) with concrete solutions and interpretation; -provides practical strategies and tools without "dry physics and mathematics"; -initiates the

application of thermal methods in new fields (e.g. medicine); -forces the reader to go into more detail of thermodynamics and thermal techniques; -simplifies communication between biologists, medical doctors and experts of thermal analysis. The book is an invaluable resource for anyone interested in thermodynamics, including practising professionals applying thermal methods to biological problems; researchers and graduate students beginning work using thermal methods; and specialists of thermal analysis starting work on biological problems. In addition, this book will be a useful resource for libraries and institutes as the only book covering quantitative thermal analysis of biological systems.

The Collected Works of Alan Agresti
John Wiley & Sons

This volume records the proceedings of a Forum on The Fundamentals of Electron Density, Density Matrix and Density Functional Theory in Atoms, Molecules and the Solid State held at the Coseners' House, Abingdon-on-Thames, Oxon. over the period 31st May - 2nd June, 2002. The forum consisted of 26 oral and poster presentations followed by a discussion structure around questions and comments submitted by the participants (and others who had expressed an interest) in advance of the meeting. Quantum mechanics provides a theoretical foundation for our understanding of the structure and properties of atoms, molecules and the solid state in terms their component particles, electrons and nuclei. (Relativistic quantum mechanics is required for molecular systems containing heavy atoms.) However, the solution of the equations of quantum mechanics yields a function, a wave function, which depends on the coordinates, both space and spin, of all of the particles in the system. This function contains much more information than is required to yield the energy or other property.

Therapeutic Uses of Rap and Hip-Hop

Springer Science & Business Media

This volume is the 11th in the Studies in Perception and Action series and contains research presented at the 16th International Conference on Perception and Action (ICPA) meeting in the summer of 2011. ICPA provides a forum for presenting new data, theory, and methodological developments relevant to the ecological approach to perception and action. The forty-nine papers presented in this volume are divided into five

Parts and represent the latest developments in ecological psychology research from four continents. In many instances, the contributions to Studies volumes reflect the first appearance of new ideas in a scientific venue. As a result, this book contains the most recent and cutting-edge research in perception and action. This volume will appeal to individuals who follow the research literature in ecological psychology, as well as those interested in perception, perceptual development, human movement dynamics, social processes, and human factors.
Supercomputing Springer Science & Business Media

An outgrowth of an earlier workshop held by the community of European Solar Radio Astronomers (CESRA), this topical volume collects reviews on the current multiwavelength findings and perspectives from the space missions RHESSI, TRACE and SOTTO. The aspects of solar physics dealt with are particle acceleration during flares, large-scale disturbances, and coronal plasma physics.