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String Processing and Information Retrieval
Mario A. Nascimento 2003-12-12 This volume of the Lecture Notes in Computer Science series provides a c- prehensive, 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, represe- ing all continents but one. These people, in turn, used the help of 40 external referees. During the review processall but a few papers had four reviewsinstead of the usual three, and at the end 21 submissions were accepted to be p- lished 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-efned 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:
The Krishna Bharat (Google, Inc.) and Joao Meidanis (State Univ. of Campinas and Scylla Bioinformatics).

Structure-Property Relationships in Non-Linear Optical Crystals||
Xin-Tao Wu 2012-05-30
Xiao-Ming Jiang, Sheng-Ping Guo, Hui-Yi Zeng, Ming-Jian Zhang, Guo-Cong Guo: Large Crystal Growth and New Crystal Exploration of Mid-Infrared Second-Order Nonlinear Optical Materials.-
Kechen Wu: Simulation and Design of Infrared Second-Order Nonlinear Optical Materials in Metal Cluster Compounds.-
Chaoyang Tu: The Recent Development Of SRS and SRS SF- conversion Laser Crystal.-
Hua-Jun Zhao, Xin-Tao Wu, Li-Ming Wu: Exploration of New Second-Order Nonlinear Optical Compounds Containing Main Group Elements.

The Cellular Response to the Genotoxic Insult
Helmut Greim 2012 This book considers the exposure levels at which genotoxins pose a risk and describes the cellular mechanisms used against them.
The Significance of Faecal Indicators in Water
David Kay 2012 This book is the proceedings of the conference Faecal Indicators: problem or solution? Has technical progress reduced the need for faecal indicators? held on 6th to 8th June 2011 at Edinburgh Conference Centre, Heriot Watt University, UK. It addresses existing and emerging issues in environmental microbiology which in turn offer exciting new challenges in microbiology, public health and environmental science. The ultimate aim being to assist the monitoring and modelling of environmental systems to protect human health, animal welfare and environmental quality. With contributions from leading scientists and experts in academia and industry, it offers a truly international perspective on both current research and our ability to respond with useful and sustainable solutions to many of the emerging challenges of today’s modern communities. The conference featured two combative, provocative and engaging debates examining the moral issues behind the statements "What is a coliform and are coliforms relevant to public health?" and "Do regulations help or hinder the innovation in testing methods?". The reports of these questions are captured in the book. The book appeals across the board from those working in universities and research institutes to local governments, the water and food industries, and health professionals.

Project Orion
George Dyson 2003-03-26 The race to the moon dominated space flight during the the 1960s yet, during the late 1950s and early 1960s, the US Government sponsored a project that could possibly have sent 150 people on expeditions to Mars or Saturn.The project was code-named Orion and centred upon the effort to develop a fast, manoeuvrable, nuclear-powered space vehicle for long-range voyages in space. The proposed 4000-ton spaceship would be propelled by nuclear bombs but, strictly classified, the project was never given a chance to succeed or fail - due partly to its apparent absurdity - but its mix of sublime physics, madcap engineering, and a cast of Cold War warriors and would-be inter-galactic engineers made the mission a tantalising what if story.In this book George Dyson, son of physicist Freeman Dyson, one of the original project team, pieces together the story his father could only tell him in fragments at the time.

Sustainable Preparation of Metal Nanoparticles
Rafael Luque 2012-11-10 This timely publication bridges and presents the latest trends and updates in three hot topics of current and future society: nanomaterials, energy and environment. It provides the state-of-the-art as well as current challenges and advances in the sustainable preparation of metal nanoparticles and their applications. The book fills a critical gap in a multidisciplinary area of high economic, social and environmental importance. Currently, there are no books published that deal with these ever increasing important topics, as most books in this area focus on a particular topic (eg. nanomaterials or catalysis or energy or environment). This is the first multidisciplinary edited book covering the very basics to the more advanced, trendy developments, containing a unique blend of nano, green, renewable and bio.

Structure-Property Relationships in Non-Linear Optical Crystals||
Xin-Tao Wu 2012-05-30
Wen-Dan Cheng, Chen-Sheng Lin, Wei-Long Uhang, Hao Zhang: Structural Designs and Property Characterizations for Second-Harmonic Generation Materials.-
Fang Kong, Chuan-Fu Sun, Bing-Ping Yang, Jiang-Gao Mao: Second-order Non-linear Optical Materials based on Metal Iodates, Selenites and Tellurites.-
Guo-Fu Wang: Structure, growth, nonlinear optics and laser properties of RX3(BO3)4 (R=Y, Gd, La; X=Al, Sc).-
Chaoyang Tu, Zhaojie Zhu, Zhenyu You, Jianfu Li, Yan Wang, Alain Brenier: The Recent Development of Borate SF-conversion Laser Crystal.-
Ning Ye: Structure design and crystal growth of UV nonlinear borate materials.-
Yi-Zhi Huang, Li-Ming Wu, Mao-Chun Hong: Cation Effect in Doped BBO and Halogen Anion Effect in Pb2B5O9X (X = I-, Br-, Cl-).

The Complex Dynamics of Economic Interaction
Mauro Galegati 2012-12-06 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.

Supercavitation
Igor Nesteruk 2012-01-11 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 reseaches, scientists, engineers, and students interested in problems of hydromechanics.

The High Energy Solar Corona: Waves, Eruptions, Particles
Karl L. Klein 2007-09-26 An outgrow 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.

Supernovae as Distance Indicators
Norbert Bartel 1985

Subsea Control and Data Acquisition
Society for Underwater Technology (SUT) 1986-09-30 The biennial conferences of the Society for Underwater Technology have achieved an excellent reputation for the quality of their presentations, which cover topics of the most acute current interest, as well as those at the forefront of review and development. The 1994 conference on Subsea Control and Data Acquisition formed no exception, since it covers subjects at the cutting edge of modern technology. It is a matter of increasing concern that products are becoming overspecified, resulting in excessive costs and longer development schedules, while not conferring an equivalent benefit in reliability of the finished product. Subsea Control and Data Acquisition is vital reading for all subsea control system designers, manufacturers and operators, equipment consultants, application engineers, academics in the subsea engineering field, and all subsea engineers.

Structure and Dynamics of Electronic Excited States
Jaán Laane 2012-12-06 New developments in laser technology and theoretical modeling has allowed physicists to control chemical reactions using lasers and to attain an understanding of the underlying photochemical reaction mechanism. The book gives an up-to-date presentation of this research area, covering time-resolved spectroscopy and the dynamical behavior of electronically excited states.

The Place of Probability in Science
Ellery Eells 2010-06-08 Science aims at the discovery of general principles of special kinds that are applicable for the explanation and prediction of the phenomena of the world in the form of theories and laws. When the phenomena themselves happen to be general, the principlesinvolved assume the form of theories; and when they are p- ticular, they assume the form of general laws. Theories themselves are sets of laws and de nitions that apply to a common domain, which makes laws indispensable to science. Understanding science thus depends upon understanding the nature of theories and laws, the logical structure of explanations and predictions based upon them, and the principles of inference and decision that apply to theories and laws. Laws and theories can differ in their form as well as in their content. The laws of quantum mechanics are indeterministic (or probabilistic), for example, while those of classical mechanics are deterministic (or universal) instead. The history of science re ect an increasing role for probabilities as properties of the world but also as measures of evidential support and as degrees of subjective belief. Our purpose is to clarify and illuminate the place of probability in science.

The Fundamentals of Electron Density, Density Matrix and Density Functional Theory in Atoms, Molecules and the Solid State N. I. Gidopoulos 2013-03-09 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 Cosensers' 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 under standing of the structure and properties of atoms, molecules and the solid state in terms their component particles, electrons and nuclei. (Rel ativistic quantum mechanics is required for molecular systems contain ing heavy atoms.) However, the solution of the equations of quantum mechanics yields a function, a wave function, which depends on the co ordinates, both space and spin, of all of the particles in the system. This functions contains much more information than is required to yield the energy or other property.

Structural Connections for Lightweight Metallic Structures
Pedro M.G.P. Moreira 2012-02-05 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.

Studies in Perception and Action||
Eric P. Charles 2013-06-17 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.

Studying Kinetics with Neutrons
Götz Eckold 2009-10-22 Neutrons are extremely versatile probes for investigating structure and dynamics in condensed matter. Due to their large penetration depth, they are ideal for in-situ measurements of samples situated in sophisticated and advanced environments. The advent of new high-intensity neutron sources and instruments, as well as the development of new real-time techniques, allows the tracking of transportation processes in condensed matter on a microscopic scale. The present volume provides a review of the state of the art of this new and exciting field of kinetics with neutrons.

Sustainable Rural and Urban Ecosystems: Design, Implementation and Operation
Gunther Geller 2012-06-30 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 founded 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.

Incompressible Flow
Ronald L. Panton 2013-08-05 The most teachable book on incompressible flow— now fully revised, updated, and expanded
Incompressible Flow, Fourth Edition is the updated and revised edition of Ronald Panton’s classic text. It continues a respected tradition of providing the most comprehensive coverage of the subject in an exceptionally clear, unified, and carefully paced introduction to advanced concepts in fluid mechanics. Beginning with basic principles, this Fourth Edition patiently develops the math and physics leading to major theories. Throughout, the book provides a unified presentation of physics, mathematics, and engineering applications, liberally supplemented with helpful exercises and example problems. Revised to reflect students’ ready access to mathematical computer programs that have advanced features and are easy to use, Incompressible Flow, Fourth Edition includes: Several more exact solutions of the Navier-Stokes equations Classic-stytle Fortran programs for the Hiemenz flow, the Psi-Omega method for entrance flow, and the laminar boundary layer program, all revised into MATLAB A new discussion of the global vorticity drounder restriction A revised vorticity dynamics chapter with new examples, including the ring line vortex and the Fraenkel-Norbury vortex solutions A discussion of the different behaviors that occur in subsonic and supersonic steady flows Additional emphasis on composite asymptotic expansions
Incompressible Flow, Fourth Edition is the ideal coursebook for classes in fluid dynamics offered in mechanical, aerospace, and chemical engineering programs.

The Challenges of the New EU Pharmaceutical Legislation
José Luis Valverde 2005 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.

The Physics of Phase Space
Young S. Kim 2006-01-20 The concept of phase space plays a decisive role in the study of the transition from classical to quantum physics. This is particularly the case in areas such as nonlinear dynamics and chaos, geometric quantization and the study of the various semi-classical theories, which are the setting of the present volume. Much of the content is devoted to the study of the Wigner distribution. This volume gives the first complete survey of the progress made by both mathematicians and physicists. It will serve as an excellent reference for further research.

The Nature of Biological Systems as Revealed by Thermal Methods
Dénes Lőrinczy 2004-07-20 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.

Sustainable Automotive Technologies 2011
Steve Hung 2011-04-15 These proceedings capture papers presented at the third International Conferences on Sustainable Automotive Technologies (ICSAT), held at the Clemson University International Center for Automotive Research (CU-ICAR), Greenville, South Carolina, USA, during 5-6 April 2011. ICSAT is the state-of-the-art conference in the field of new technologies for transportation. The book summarizes all important trends in sustainability of automotive development today with a special focus on materials, propulsion technologies as well as manufacturing issues. It provides a brief selection of papers and key-note speakers of the conference. Papers from the US, Australia, Europe and Asia are showing the lighthouse character of the conference, in a field which gains more and more importance as far as emissions and the lack of fossil fuels in the future are concerned. The book provides a very good overview of R&D activities at OEMs as well as in leading universities and laboratories; the special focus is on new ideas for sustainable mobility.

Supersymmetric Gravity and Black Holes
Stefano Bellucci 2013-01-18 This book is based upon lectures presented in the summer of 2009 at the INFN-Laboratori Nazionali di Frascati School on Attractor Mechanism, directed by Stefano Bellucci. The symposium included such prestigious lecturers as S. Ferrara, G. Dall’Agata, J.F. Morales, J. Simón and M. Trigiante. All lectures were given at a pedagogical, introductory level, which is reflected in the specific “flavor” of this volume. The book also benefits from extensive discussions about, and the related reworking of, the various contributions. It is the fifth volume in a series of books on the general topics of supersymmetry, supergravity, black holes and the attractor mechanism.

Strong Interactions in Low Dimensions
D. Baeriswyl 2007-09-29 This book provides an attempt to convey the colorful facets of condensed matter systems with reduced dimensionality. Some of the specific features predicted for interacting one-dimensional electron systems, such as charge- and spin-density waves, have been observed in many quasi-one-dimensional materials. The two-dimensional world is even richer: besides d-wave superconductivity and the Quantum Hall Effect - perhaps the most spectacular phases explored during the last two decades - many collective charge and spin states have captured the interest of researchers, such as charge stripes or spontaneously generated circulating currents. Recent years have witnessed important progress in material preparation, measurement techniques and theoretical methods. Today larger and better samples, higher flux for neutron beams, advanced light sources, better resolution in electron spectroscopy, new computational algorithms, and the development of field-theoretical approaches allow an in-depth analysis of the complex many-body behaviour of low-dimensional materials. The epoch when simple mean-field arguments were sufficient for describing the gross features observed experimentally is definitely over. The Editors’ aim is to thoroughly explain a number of selected topics: the application of dynamical probes, such as neutron scattering, optical absorption and photoemission, as well as transport studies, both electrical and thermal. Some of the more theoretical chapters are directly relevant for experiments, such as optical spectroscopy, transport in one-dimensional models, and the phenomenology of charge inhomogeneities in layered materials, while others discuss more general topics and methods, for example the concept of a Luttinger liquid and bosonization, or duality transformations, both promising tools for treating strongly interacting many-body systems.

Sulfur in Plants
Malcolm J. Hawkesford 2007-03-07 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.

Structural Dynamics of Electronic and Photonic Systems
Ephraim Suhir 2011-04-04 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.

Secret Projects
Bill Rose 2008 This new addition to the highly successful ‘Secret Projects’ series adds a new dimension to the weird, wonderful and wacky ideas that were developed to conquer space

The Story of De Stijl
Hans Janssen 2011 "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 Environments of the Sun and the Stars
Jean-Pierre Rozelot 2012-08-17 Based on lectures given at a CNRS summer school in France, this book covers many aspects of stellar environments (both observational and theoretical) and offers a broad overview of the field. More specifically, Part I of the book focuses on the Sun, the properties of the ejected plasma, of the solar wind and on space weather. The second part deals with tides in planetary systems and in binary stellar systems, as well as with interactions in massive binary stars as seen by interferometry. Finally the chapters of Part II discuss the environments of young or evolved stars, stellar winds, agnetic fields and disks. With its broad approach the book will provide advanced students as well as researchers with a good overview of the environments of the Sun and the stars.

Synthesis of Heterocycles via Multicomponent Reactions
I Romano V. A. Orru 2010-05-12 Contents: 1. 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: α-ACidic Isonydenes 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 Sun: New Challenges
Vladimir N. Obrinko 2014-08-09 These are the proceedings of the Symposium 3 of JENAM 2011 on new scientific challenges posed by the Sun. The topics covered are 1. The unusual sunspot minimum, which poses challenges to the solar dynamo theory 2. The Sun’s Terra-Hertz emission, which opens a new observational window 3. Corona wave activity 4. Space weather agents - initiation, propagation, and forecasting
In 21 in-depth contributions, the reader will be presented with the latest findings.

Flying Wings and Tailless Aircraft
Bill Rose 2010 This is an exciting new addition to the highly successful Secret Projects series, which examines some extraordinary flying wings and tailless aircraft projects. Designed and developed since the dawn of aviation, these aircraft still hold a great importance today, with many aviation enthusiasts eager to learn more about these remarkable aircraft, which provided the foundations for the modern aviation scene. Beginning with an analysis of the advantages of the flying wing, the author looks at why aerodynamicists has been attracted to this unique configuration since the earliest days of manned flight, highlighting a range of specific aircraft and relevant examples. Many aviation enthusiasts will delight in discovering the more intimate developmental details of familiar aircraft including the famous early glider Junkers and other World War 1 flying wing biplane designs.

The Challenge of Change: Dealing with the Legacy of the Modern Movement
D. van den Heuvel 2008-09-11 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. **Subjective Quality Measurement of Speech**
Kazuhiro Kondo 2012-02-06 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.

Sustainable Development of Deltas
Henk Oudshoorn 1999

Therapeutic Uses of Rap and Hip-Hop
Susan Hadley 2012-05-22 In perceiving all rap and hip-hop music as violent, misogynistic, and sexually charged, are we denying the way in which it is attentive to the lived experiences, both positive and negative, of many therapy clients? This question is explored in great depth in this anthology, the first to examine the use of this musical genre in the therapeutic context. The contributors are all experienced therapists who examine the multiple ways that rap and hip-hop can be used in therapy by listening and discussing, performing, creating, or improvising. The text is divided into three sections that explore the historical and theoretical perspectives of rap and hip-hop in therapy, describe the first-hand experiences of using the music with at-risk youth, and discuss the ways in which contributors have used rap and hip-hop with clients with specific diagnoses, respectively. Within these sections, the contributors provide rationale for the use of rap and hip-hop in therapy and encourage therapists to validate the experiences for those for whom rap music is a significant mode of expression. Editors Susan Hadley and George Yancy go beyond promoting culturally competent therapy to creating a paradigm shift in the field, one that speaks to the problematic ways in which rap and hip-hop have been dismissed as expressive of meaningless violence and of little social value. More than providing tools to incorporate rap into therapy, this text enhances the therapist’s cultural and professional repertoire.

The Pulsations of the Sun and the Stars
Jean-Pierre Rozelot 2011-07-03 This volume of lecture notes brings together the knowledge on pulsations of the Sun and the stars, with a particular emphasis on recent observations and modelling, and on the influence of pulsations of other physical processes. The book begins with an extensive introduction to helioseismology. The solar cycle and gravity modes are discussed before the focus is widened from helioseismology to asteroseismology which is detailed in a series of specific chapters. Based on courses given at a graduate school, these tutorial lecture notes will be of interest and useful to a rather broad audience of scientists and students.

Strings and Fundamental Physics
Marco Baumgartl 2012-04-05 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.