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Now in its Third Edition, Alternative Energy Systems: Design and Analysis with Induction Generators has been renamed Modeling and Analysis with Induction Generators to convey the book's primary objective—to present the fundamentals of and latest advances in the modeling and analysis of induction generators. New to the Third Edition Revised equations and mathematical modeling Addition of solved problems as well as suggested problems at the end of each chapter New modeling and simulation cases Mathematical modeling of the Magnus turbine to be used with induction generators Detailed comparison between the induction generators and their competitors Modeling and Analysis with Induction Generators, Third Edition aids in understanding the process of self-excitation, numerical analysis of stand-alone and multiple induction generators, requirements for optimized laboratory experimentation, application of modern vector control, optimization of power transference, use of doubly fed induction generators, computer-based simulations, and social and economic impacts. Modeling and Simulation of Computer Networks and Systems: Methodologies and Applications introduces you to a broad array of modeling and simulation issues related to computer networks and systems. It focuses on the theories, tools, applications and uses of modeling and simulation in order to effectively optimize networks. It describes methodologies for modeling and simulation of new generations of wireless and mobiles networks and cloud and grid computing systems. Drawing upon years of practical experience and using numerous examples and illustrative applications recognized experts in both academia and industry, discuss: Important and emerging topics in computer networks and systems including but not limited to; modeling, simulation, analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Methodologies, strategies and tools, and strategies needed to build computer networks and systems modeling and simulation from the bottom up Different network performance metrics including, mobility, congestion, quality of service, security and more... Modeling and Simulation of Computer Networks and Systems is a must have resource for network architects, engineers and researchers who want to gain insight into optimizing network performance through the use of modeling and simulation. Discusses important and emerging topics in computer networks and Systems including but not limited to; modeling, simulation, analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Provides the necessary methodologies, strategies and tools needed to build computer networks and systems modeling and simulation from the bottom up Includes comprehensive review and evaluation of simulation tools and methodologies and different network performance metrics

including mobility, congestion, quality of service, security and more As global business systems are becoming ever more complex and they continue to grow and expand, it is increasingly more difficult to stand out as an effective and efficient leader. Dynamic Leadership Models for Global Business: Enhancing Digitally Connected Environments describes various models on how to become an outstanding leader in today□s rapidly growing global business environments. This book seeks to provide positive instruction which illuminates a practical path to becoming a successful leader in such large and competitive markets. The approach is consistent with any existing leadership development program, or it may be undertaken as an individual initiative. This is a unique collection of papers, all written by leading specialists, that presents the most recent results and advances in stability theory as it relates to fluid flows. The stability property is of great interest for researchers in many fields, including mathematical analysis, theory of partial differential equations, optimal control, numerical analysis, and fluid mechanics. This text will be essential reading for many researchers working in these fields. Biannually since 1994, the European Conference on Product and Process Modelling in the Building and Construction Industry has provided a review of research, given valuable future work outlooks, and provided a communication platform for future co-operative research and development at both European and global levels.This volume, of special interest t This book bridges the current gap between the theory of symmetry-based dynamics and its application to model and analyze complex systems. As an alternative approach, the authors use the symmetry of the system directly to formulate the appropriate models, and also to analyze the dynamics. Complex systems with symmetry arise in a wide variety of fields, including communication networks, molecular dynamics, manufacturing businesses, ecosystems, underwater vehicle dynamics, celestial and spacecraft dynamics and continuum mechanics. A general approach for their analysis has been to derive a detailed model of their individual parts, connect the parts and note that the system contains some sort of symmetry, then attempt to exploit this symmetry in order to simplify numerical computations. This approach can result in highly complicated models that are difficult to analyze even numerically. The alternative approach, while nonstandard, is not entirely new among the mathematics community. However, there is much less familiarity with the techniques of symmetry-breaking bifurcation, as they apply to the engineering, design and fabrication, of complex systems, in particular, nonlinear sensor devices with special emphasis on the conceptualization and development of new technologies of magnetic sensors such as fluxgate magnetometers and SQUID (Superconducting Quantum Interference Devices), E-- (electric-field) sensors, and communication and navigation systems that require multiple frequencies of operation, such as radar and antenna devices as well as gyroscopic systems. This book constitutes the refereed proceedings of the Second International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI'99, held in Cambridge, UK, in September 1999. The 133 revised full papers presented were carefully reviewed and selected from a total of 213 full-length papers submitted. The book is divided into topical sections on data-driven segmentation, segmentation using structural models, image processing and feature detection, surfaces and shape, measurement and interpretation, spatiotemporal and diffusion tensor analysis, registration and fusion, visualization, image-guided intervention, robotic systems, and biomechanics and simulation. Ecosystems are still a puzzle for mankind. We would like to be able to know their reactions and control them, but repeatedly we have been surprised by their unexpected reactions to our somewhat hasty actions. We unfortunately have to admit that our present knowledge about ecosystems and their true nature is rather limited. Many excellent contributions to a more profound understanding of ecosystems have been launched during the last two decades, but if you do not know the field, it looks as if all the presented ecosystem theories are in complete discord with each other. However, ecosystems are extremely complex and only a pluralistic view will be able to reveal their basic properties. The different approaches therefore have much in common, when you go deeper into the core material, than the first superficial more glance will be able to tell and there is therefore a natural need for a unification of the various approaches to ecosystem theories. It has for many years been my desire to attempt to make a unification of the many excellent thoughts, ideas and observations about ecosystems, that scientists have contributed. These thoughts, ideas and hypotheses have not been made in vain. This book constitutes the thoroughly refereed post-proceedings of the First Automotive Software Workshop, ASWD 2004, held in San Diego, CA, USA in January 2004. The 10 revised full papers presented were carefully reviewed and selected from 26 lectures held at the workshop that brought together experts from industry and academia, working on highly complex, distributed, reactive software systems related to the automotive domain. The two volume-set, LNCS 7930 and LNCS 7931, constitutes the refereed proceedings of the 5th International Work-Conference on the Interplay between Natural and Artificial Computation, IWINAC 2013, held in Mallorca, Spain, in June 2013. The 92 revised full papers presented in LNCS 7930 and LNCS 7931 were carefully reviewed and selected from numerous submissions. The first part, LNCS 7930, entitled "Natural and Artificial Models in Computation and Biology”, includes all the contributions mainly related to the methodological, conceptual, formal, and experimental developments in the fields of neurophysiology and cognitive science. The second part, LNCS 7931, entitled “Natural and Artificial Computation in Engineering and Medical Applications”, contains the papers related to bioinspired programming strategies and all the contributions related to the computational solutions to engineering problems in different application domains, specially Health applications, including the CYTED “Artificial and Natural Computation for Health” (CANS) research network papers. In addition, this two volume-set reflects six interesting areas: cognitive robotics; natural computing; wetware computation; quality of life technologies; biomedical and industrial perception applications; and Web intelligence and neuroscience. With digital content published across more channels than ever before, how can you make yours easy to find, use, and share? Is your content ready for the next wave of content platforms and devices? In Designing Connected Content, Mike Atherton and Carrie Hane share an end-to-end process for building a structured content framework. They show you how to research and model your subject area based on a shared understanding of the important concepts, and how to plan and design interfaces for mobile, desktop, voice, and beyond. You will learn to reuse and remix your valuable content assets to meet the needs of today and the opportunities of tomorrow. Discover a design method that starts with content, not pixels. Master the interplay of content strategy, content design, and content management as you bring your product team closer together and encourage them to think content first. Learn how to Model your content and its underlying subject domain Design digital products that scale without getting messy Bring a cross-functional team together to create content that can be efficiently managed and effectively delivered Create a framework for tackling content overload, a multitude of devices, constantly changing design trends, and siloed content creation The nonlinear elastic behavior of solid materials is often described in the context of continuum mechanics. Alternatively, one can try to determine the behavior of every single atom in the material. Classically, the connection between these two types of models is made with the Cauchy-Born rule. The aim of this book is to provide good criteria for the Cauchy-Born rule to be true and to make the connection between continuum and atomistic models precise. In particular, this includes rigorous proofs for the existence of solutions to the atomistic boundary value problem and their convergence to the corresponding continuum solutions in the limit of small interatomic distances. Models of Teaching: Connecting Student Learning with Standards features classic and contemporary models of teaching appropriate to elementary and secondary settings. Authors Jeanine M. Dell'Olio and Tony Donk use detailed case studies to discuss 10 models of teaching and demonstrate how they can be connected to state content standards and benchmarks, as well as technology standards. This book provides readers with the theoretical and practical understandings of how to use models of teaching to both meet and exceed the growing expectations for research based instructional practices and student achievement. The fourth book of a four-part series, Design Theory and Methods using CAD/CAE integrates discussion of modern engineering design principles, advanced design tools, and industrial design practices throughout the design process. This is the first book to integrate discussion of computer design tools throughout the design process. Through this book series, the reader will: Understand basic design principles and all digital modern engineering design paradigms Understand CAD/CAE/CAM tools available for various design related tasks Understand how to put an

integrated system together to conduct All Digital Design (ADD) product design using the paradigms and tools Understand industrial practices in employing ADD virtual engineering design and tools for product development The first book to integrate discussion of computer design tools throughout the design process Demonstrates how to define a meaningful design problem and conduct systematic design using computer-based tools that will lead to a better, improved design Fosters confidence and competency to compete in industry, especially in high-tech companies and design departments A Model Unit for Grade 6: Connecting a Country is one book in the series Tools for Instruction and Reading Assessment. The series consists of twenty-four companion documents to Teaching to Diversity: The Three Block Model of Universal Design for Learning by Jennifer Katz. The model unit integrates major themes from Manitoba's curricula for the first term of the grade 6 school year. The topics are "Building a Nation" from the social studies curriculum and "Electricity" from the science curriculum. These are brought into other disciplines: mathematics, physical education and health, language arts, and fine arts — particularly through the lens of the multiple intelligences (MI). Differentiated activities based on MI approaches inspire diverse students and accommodate their individual learning styles. MI activity cards are included, as well as planners that outline the essential understandings, essential questions, and final inquiry projects for the unit. Rubrics, based on Bloom’s taxonomy, show a progression of conceptual thinking from rote, basic understanding to synthesized, higher-order analysis. Teachers can use this model unit as a template for planning subsequent thematic units for the rest of the school year. Proceedings of the 4th International Conference on Theory and Application of Diagrams, Stanford, CA, USA in June 2006. 13 revised full papers, 9 revised short papers, and 12 extended abstracts are presented together with 2 keynote papers and 2 tutorial papers. The papers are organized in topical sections on diagram comprehension by humans and machines, notations: history, design and formalization, diagrams and education, reasoning with diagrams by humans and machines, and psychological issues in comprehension, production and communication. Modern Statistical Methodology and Software for Analyzing Spatial Point PatternsSpatial Point Patterns: Methodology and Applications with R shows scientific researchers and applied statisticians from a wide range of fields how to analyze their spatial point pattern data. Making the techniques accessible to non-mathematicians, the authors draw on th In this authoritative and comprehensive volume, Claude Bardos and Andrei Fursikov have drawn together an impressive array of international contributors to present important recent results and perspectives in this area. The main subjects that appear here relate largely to mathematical aspects of the theory but some novel schemes used in applied mathematics are also presented. Various topics from control theory, including Navier-Stokes equations, are covered. Information modelling and knowledge bases have become hot topics, not only in academic communities concerned with information systems and computer science, but also wherever information technology is applied in the world of business. This book presents the proceedings of the 21st European-Japanese Conference on Information Modelling and Knowledge Bases (EJC 2011), held in Tallinn, Estonia, in June 2011. The EJC conferences provide a worldwide forum for researchers and practitioners in the field to exchange results and experiences achieved in computer science and related disciplines such as conceptual analysis, design and specification of information systems, multimedia information modelling, multimedia systems, software engineering, knowledge and process management, cross cultural communication and context modelling. Attention is also paid to theoretical disciplines including cognitive science, artificial intelligence, logic, linguistics and analytical philosophy. The selected papers (16 full papers, 9 short papers, 2 papers based on panel sessions and 2 on invited presentations), cover a wide range of topics, including database semantics, knowledge representation, software engineering, www information management, context-based information retrieval, ontology, image databases, temporal and spatial databases, document data management, process management, cultural modelling and many others. Covering many aspects of system modelling and optimization, this book will be of interest to all those working in the field of information modelling and knowledge bases. This book contains the elaborated and updated versions of the 24 lectures given at the 43rd Saas-Fee Advanced Course. Written by four eminent scientists in the field, the book reviews the physical processes related to star formation, starting from cosmological down to galactic scales. It presents a detailed description of the interstellar medium and its link with the star formation. And it describes the main numerical computational techniques designed to solve the equations governing self-gravitating fluids used for modelling of galactic and extra-galactic systems. This book provides a unique framework which is needed to develop and improve the simulation techniques designed for understanding the formation and evolution of galaxies. Presented in an accessible manner it contains the present day state of knowledge of the field. It serves as an entry point and key reference to students and researchers in astronomy, cosmology, and physics. The demands of modeling and computation in engineering are rapidly growing as a multidisciplinary area with connections to engineering, mathematics and computer science. Modeling and Computation in Engineering III contains 45 technical papers from the 3rd International Conference on Modeling and Computation in Engineering (CMCE 2014, 28-29 June 2014, including 2014 Hydraulic Engineering and Environment Workshop, HEEW 2014). The conference serves as a major forum for researchers, engineers and manufacturers to share recent advances, discuss problems, and identify challenges associated with modeling technology, simulation technology and tools, computation methods and their engineering applications. The contributions showcase recent developments in the areas of civil engineering, hydraulic engineering, environmental engineering and systems engineering, and other related fields. The contributions in this book mainly focus on advanced theories and technology related to modeling and computation in civil engineering, hydraulic structures, hydropower and management, coastal reclamation and environmental assessment, flood control, irrigation and drainage, water resources and water treatment, environmental management and sustainability, waste management and environmental protection, pollution and control, geology and geography, mechanics in engineering, numerical software and applications. Although these papers represent only modest advances toward modeling and computation problems in engineering, some of the technologies might be key factors in the success of future engineering advances. It is expected that this book will stimulate new ideas, methods and applications in ongoing engineering advances. Modeling and Computation in Engineering III will be invaluable to academics and professionals in civil engineering, hydraulic engineering and environmental engineering. This volume is the revised Report, which an international team of experts have prepared for the Greek Ministry of Labour and Social Security in the context of the Greek Presidency of the European Union and presented in the international conference "The Modernisation of the European Social Model. EU Policies and Practices" on 24-25 May 2003, at Ioannina, Greece. The book focuses on the Open Method of Coordination (OMC), its relation to other policy tools used in the European Social Policy and its significance for the fomation of a new European Social Model. The chapters follow the emergence, the evolution and analyze the constituent elements of the OMC in the fields of Social Inclusion and Pensions since the Lisbon Summit. During the Portuguese Presidency OMC encountered a cautious response. The OMC idea made substantial progress during the Belgian Presidency. In the Ioannina conference the OMC had full recognition as a tool for the implementation of European Social Policy. Everyone agreed that important social issues were dealt with more effectively through the OMC, especially when the latter is consolidated after the inclusion of the Charter of the fundamental Rights in the new European Treaty. This progress is sufficiently reflected in the present volume, where it is concluded that through OMC the European Social Model gained a new momentum in terms of effectiveness and legitimacy. This book includes a collection of articles that present recent developments in the fields of optimization and dynamic game theory, economic dynamics, dynamic theory of the firm, and population dynamics and non standard applications of optimal control theory. The authors of the articles are well respected authorities in their fields and are known for their high quality research in the fields of optimization and economic dynamics. Models of Teaching: Connecting Student Learning with Standards features classic and contemporary models of teaching appropriate to elementary and secondary settings. Authors Jeanine M. Dell'Olio and Tony Donk use detailed case studies to discuss 10 models of teaching and demonstrate how they can be connected to

state content standards and benchmarks, as well as technology standards. This book provides readers with the theoretical and practical understandings of how to use models of teaching to both meet and exceed the growing expectations for research based instructional practices and student achievement. This book provides a practical philosophy for promoting students' sophisticated thinking from Early Childhood to PhD in ways that explicitly interconnect across the years of education. It will help teachers, academics and the broader learning and teaching community to understand and implement these connections by introducing a conceptual framework, the Models of Engaged Learning and Teaching (MELT). By covering the nature, philosophy, practice and implications of MELT for teachers and students alike, the book will help teachers to facilitate students' awareness of, and increasing responsibility for, the thinking demanded by subject and discipline-specific learning as well as interdisciplinary learning, whether face to face, online or in blended modes. The book will also provide educators with ways to effectively engage with complex, and sometimes conflicting, contemporary educational concepts, and with a diverse variety of colleagues involved in the learning and teaching enterprise. The book provides guidance that allows curriculum improvement, teacher action research and larger-scale research to be reported on from a common perspective, bridging the gap between those readers focused on research and those focused on teaching. The book shares valuable insights and ways of addressing the contemporary issue of discipline-based learning versus transdisciplinary learning, reducing the dichotomy and enabling the two approaches to complement each other. This is an Open Access book.