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Neural and Fuzzy Logic Control of Drives and Power Systems

BoD - Books on Demand

This book offers a timely review of wave energy and its conversion mechanisms. Written having in mind current needs of advanced undergraduates engineering students, it covers the whole process of energy generation, from waves to electricity, in a systematic and comprehensive manner. Upon a general introduction to the field of wave energy, it presents analytical calculation methods for estimating wave energy potential in any given location. Further, it covers power-take off (PTOs), describing their mechanical and electrical aspects in detail, and control systems and algorithms. The book includes chapters written by active researchers with vast experience in their respective field of specialization. It combines basic aspects with cutting-edge research and methods, and selected case studies. The book offers systematic and practice-oriented knowledge to students, researchers, and professionals in the wave energy

sector. Chapters 17 of this book is available open access under a CC BY 4.0 license at link.springer.com

Proceedings IECON. Elsevier Health Sciences

Natural Plant Products in Inflammatory Bowel Diseases:

Preventive and Therapeutic Potential organizes all evidence to understand which natural products are the first steps of investigation and which have strong evidence of their effects in inflammatory bowel diseases, have been tested in clinical trials, and have received approval to be officially used. In addition to providing information regarding the research with natural products in inflammatory bowel diseases, this reference will also highlight the molecular mechanisms behind the effects of natural products in inflammatory bowel diseases with the aid of figures, video animations and dynamic tables. Compiled from research group members from different parts of the world and specialized in inflammatory bowel diseases and related topics, this important reference will be useful to health professionals, researchers, professors, and industry managers as it provides helpful information on the subject, with the potential to inspire health care, relevant research and product innovation. Provides updated information on the pathogenesis of inflammatory bowel diseases

and their pharmacological treatments and adverse effects
 Delivers the most up-to-date information regarding the molecular mechanisms of natural products in inflammatory bowel diseases
 Organizes the separation of natural products based on their characteristics, including lists of the main results of natural products in experiments conducted in vitro with animals, and in humans with IBDs

Peterson's Guide to Graduate Programs in Engineering and Applied Sciences McGraw Hill Professional

Selecting and bringing together matter provided by specialists, this project offers comprehensive information on particular cases of heat exchangers. The selection was guided by actual and future demands of applied research and industry, mainly focusing on the efficient use and conversion energy in changing environment. Beside the questions of thermodynamic basics, the book addresses several important issues, such as conceptions, design, operations, fouling and cleaning of heat exchangers. It includes also storage of thermal energy and geothermal energy use, directly or by application of heat pumps. The contributions are thematically grouped in sections and the content of each section is introduced by summarising the main objectives of the encompassed chapters. The book is not necessarily intended to be an elementary source of the knowledge in the area it covers, but rather a mentor while pursuing detailed solutions of specific technical problems which face engineers and technicians engaged in research and development in the fields of heat transfer and heat exchangers.

Technologies for Sustainable Development Woodhead Publishing
Progress in Renewable Energies Offshore includes the papers presented in the 2nd International Conference on Renewable Energies Offshore (RENEW2016, Lisbon, Portugal, 24-26 October 2016). The scope of the book is broad, covering all aspects of renewable energies offshore activities such as resource assessment; wind energy; wave energy; tidal energy; ocean energy devices; multiuse platforms; PTO design; grid connection; economic assessment; installation and maintenance planning. The contents of the present book are organized in these main subject areas corresponding to the sessions in the Conference. The conference reflects the importance of the renewable energies offshore worldwide and is an opportunity to contribute to the exchange of information on the developments and experience obtained in concept development, design and operation of these devices. *Progress in Renewable Energies Offshore* has as main target academics and professionals working in the related areas of renewable energies.

Cumulated Index Medicus CRC Press

Within manufacturing, welding is by far the most widely used fabrication method used for production, leading to a rise in research and development activities pertaining to the welding and joining of different, similar, and dissimilar combinations of the metals. This book addresses recent advances in various welding processes across the domain, including arc welding and solid-state welding process, as well as experimental processes. The content is structured to update readers about the working principle, predicaments in existing process, innovations to overcome these problems, and direct industrial and practical applications. Key Features: Describes recent developments in welding technology, engineering, and science Discusses advanced computational techniques for procedure development Reviews recent trends of implementing DOE and meta-heuristics optimization techniques for setting accurate parameters Addresses related theoretical, practical, and industrial aspects Includes all the aspects of welding, such as arc welding, solid state welding, and weld overlay

ASCE Combined Index Elsevier

This comprehensive book covers the five major NDT methods - liquid penetrants, eddy currents, magnetic particles, radiography and ultrasonics in detail and also considers newer methods such as acoustic emission and thermography and discusses their role in on-line monitoring of plant components. Analytical techniques such as reliability studies and statistical quality control are considered in terms of their ability to reduce inspection costs and limit down time. A useful chapter provides practical guidance on selecting the right method for a given situation.

Natural Plant Products in Inflammatory Bowel Diseases CRC Press
 Graduate students depend on this series and ask for it by name. Why? For over 30 years, it's been the only one-stop source that supplies all of their information needs. The new editions of this six-volume set contain the most comprehensive information available on more than 1,500 colleges offering over 31,000 master's, doctoral, and professional-degree programs in more than 350 disciplines. New for 1997 -- Non-degree-granting research centers, institutes, and training programs that are part of a graduate degree program. Five discipline-specific volumes detail entrance and program requirements, deadlines, costs, contacts, and special options, such as distance learning, for each program, if available. Each Guide features "The Graduate Adviser", which discusses entrance exams, financial aid, accreditation, and more. Interest in these fields has never been higher! And this is the source to the 3,400 programs currently available -- from bioengineering and computer science to construction management.

Science Citation Index Peterson Nelnet Company

*Introduces cutting-edge control systems to a wide readership of engineers and students *The first book on neuro-fuzzy control systems to take a practical, applications-based approach, backed up with worked examples and case studies *Learn to use VHDL in real-world applications
 Introducing cutting edge control systems through real-world applications
 Neural networks and fuzzy logic based systems offer a modern control solution to AC machines used in variable speed drives, enabling industry to save costs and increase efficiency by replacing expensive and high-maintenance DC motor systems. The use of fast micros has revolutionised the field with sensorless vector control and direct torque control. This book reflects recent research findings and acts as a useful guide to the new generation of control systems for a wide readership of advanced undergraduate and graduate students, as well as practising engineers. The authors guide readers quickly and concisely through the complex topics of neural networks, fuzzy logic, mathematical modelling of electrical machines, power systems control and VHDL design. Unlike the academic monographs that have previously been published on each of these subjects, this book combines them and is based round case studies of systems analysis, control strategies, design, simulation and implementation. The result is a guide to applied control systems design that will appeal equally to students and professional design engineers. The book can also be used as a unique VHDL design aid, based on real-world power engineering applications.

Ocean Wave Energy Systems Elsevier

For sophomore- or junior-level courses in Fluid Power, Hydraulics, and Pneumatics in two- or four-year Engineering Technology and Industrial Technology programs. *Fluid Power with Applications, Seventh Edition* presents broad coverage of fluid power technology in a readable and understandable fashion. An extensive array of industrial applications is provided to motivate and stimulate students' interest in the field. Balancing theory and applications, this text is updated to reflect current technology; it focuses on the design, analysis, operation, and maintenance of fluid power systems.

Indian Science Abstracts Springer Nature

This volume contains a selection of papers presented at the 7th Nirma University International Conference on Engineering 'NUICONE 2019'. This conference followed the successful organization of four national conferences and six international conferences in previous years. The main theme of the conference was "Technologies for Sustainable Development", which is in line with the "SUSTAINABLE DEVELOPMENT GOAL" established by the United Nations. The conference was organized with many interdisciplinary technical themes encompassing a broad range of disciplines and enabling researchers, academicians and practitioners to choose between ideas and themes. Besides, NUICONE-2019 has also presented an exciting new set of events to engage practicing engineers, technologists and technopreneurs from industry through special knowledge sharing sessions involving applied technical papers based on case-study applications, white-papers, panel discussions, innovations and technology products. This proceedings will definitely provide a platform to proliferate new findings among researchers.

Advances in Transportation Engineering Emerging Trends in Water Resources and Environmental Engineering Construction Technology and Management Concrete and Structural Engineering Futuristic Power System Control of Power Electronics Converters, Drives and E-mobility Advanced Electrical Machines and Smart Apparatus Chemical Process Development and Design Technologies and Green Environment Sustainable Manufacturing Processes Design and Analysis of Machine and Mechanism Energy Conservation and Management Advances in Networking Technologies Machine Intelligence / Computational Intelligence Autonomic Computing Control and Automation Electronic Communications Electronics Circuits and System Design Signal Processing

Index to IEEE Publications CRC Press

Comprehensive in scope, yet concise and easy to manage, *Principles and Practice of Pediatric Infectious Diseases*, 6th Edition, by Drs. Sarah S. Long, Charles G. Prober, Marc Fischer, and new editor David Kimberlin, is your go-to resource for authoritative information on infectious diseases in children and adolescents. A veritable "who's who" of global authorities provides the practical knowledge you need to understand, diagnose, and manage almost any pediatric infectious disease you may encounter. Covers the latest aspects of the COVID-19 pandemic, including manifestations, diagnosis, management, and prevention of SARS-CoV-2 infection. Features an easy-access format with high-yield information boxes, highlighted key points, and an abundance of detailed illustrations and at-a-glance tables. Allows quick look-up by clinical presentation, pathogen, or type of host. Highlights expanding antimicrobial resistance patterns and new therapies for viral and fungal infections and resistant bacterial infections. Includes coverage of the latest vaccine products, recommendations, and effectiveness. Reviews emerging healthcare-associated infections, their management, control, and prevention. Contains a new chapter on Chorioamnionitis and Neonatal Consequences.

Mathematical Reviews CRC Press

Hydraulics and Pneumatics: A Technician's and Engineer's Guide provides an introduction to the components and operation of a hydraulic or pneumatic system. This book discusses the main advantages and disadvantages of pneumatic or hydraulic systems. Organized into eight chapters, this book begins with an overview of industrial prime movers. This text then examines the three different types of positive displacement pump used in hydraulic systems, namely, gear pumps, vane pumps, and piston pumps. Other chapters consider the pressure in a hydraulic system, which can be quickly and easily controlled by devices such as unloading and pressure regulating valves. This book discusses as well the importance of control valves in pneumatic and hydraulic systems to regulate and direct the flow of fluid from compressor or pump to the various load devices. The final chapter deals with the safe-working practices of the systems. This book is a valuable resource for process control engineers.

Hydraulics and Pneumatics Newnes

Indexes materials appearing in the Society's Journals, Transactions, Manuals and reports, Special publications, and Civil engineering.

Fluid Power with Applications

Develop high-performance hydraulic and pneumatic power systems Design, operate, and maintain fluid and pneumatic power equipment using the expert information contained in this authoritative volume. Fluid Power Engineering presents a comprehensive approach to hydraulic systems engineering with a solid grounding in hydrodynamic theory. The book explains how to create accurate mathematical models, select and assemble components, and integrate powerful servo valves and actuators. You will also learn how to build low-loss transmission lines, analyze system performance, and optimize efficiency. Work with hydraulic fluids, pumps, gauges, and cylinders Design transmission lines using the lumped parameter model Minimize power losses due to friction, leakage, and line resistance Construct and operate accumulators, pressure switches, and filters Develop mathematical models of electrohydraulic servosystems Convert hydraulic power into mechanical energy using actuators Precisely control load displacement using HSAs and control valves Apply fluid systems techniques to pneumatic power systems

Proceedings IECON '84

Vols. for 1964- have guides and journal lists.

Magnetohydrodynamics Power Generation and Theory

The text provides basic and comprehensive coverage of all aspects of surgery for the vitreous and the retina. The key to this volume is that it is technique based, thus giving the surgeon clear instructions on how to perform vitreoretinal surgery. Not only is this book authoritative, it is practical. Each chapter is fully illustrated with the steps performed in the actual surgical operation.

Dissertation Abstracts International**Official Gazette of the United States Patent and Trademark Office****Nuclear Science Abstracts**Heat Exchangers