

The Parallel Series

G. A. Bekey, G. N. Saridis

Bulletin United States. Bureau of Mines, 1925

Efficient Modeling and Control of Large-Scale Systems Javad Mohammadpour, Karolos M. Grigoriadis, 2010-06-23

Complexity and dynamic order of controlled engineering systems is constantly increasing. Complex large scale systems (where large reflects the system's order and not necessarily its physical size) appear in many engineering fields, such as micro-electromechanics, manufacturing, aerospace, civil engineering and power engineering. Modeling of these systems often result in very high-order models imposing great challenges to the analysis, design and control problems. *Efficient Modeling and Control of Large-Scale Systems* compiles state-of-the-art contributions on recent analytical and computational methods for addressing model reduction, performance analysis and feedback control design for such systems. Also addressed at length are new theoretical developments, novel computational approaches and illustrative applications to various fields, along with: - An interdisciplinary focus emphasizing methods and approaches that can be commonly applied in various engineering fields - Examinations of applications in various fields including micro-electromechanical systems (MEMS), manufacturing processes, power networks, traffic control *Efficient Modeling and Control of Large-Scale Systems* is an ideal volume for engineers and researchers working in the fields of control and dynamic systems.

Design of Three-phase AC Power Electronics Converters Fei "Fred" Wang, Zheyu Zhang, Ruirui Chen, 2023-11-08 DESIGN

OF THREE-PHASE AC POWER ELECTRONICS CONVERTERS Comprehensive resource on design of power electronics converters for three-phase AC applications *Design of Three-phase AC Power Electronics Converters* contains a systematic discussion of the three-phase AC converter design considering various electrical, thermal, and mechanical subsystems and functions. Focusing on establishing converter components and subsystems models needed for the design, the text demonstrates example designs for these subsystems and for the whole three-phase AC converters considering interactions among subsystems. The design methods apply to different applications and topologies. The text presents the basics of the three-phase AC converter, its design, and the goal and organization of the book, focusing on the characteristics and models important to the converter design for components commonly used in three-phase AC converters. The authors present the design of subsystems, including passive rectifiers, inverters and active rectifiers, electromagnetic interference (EMI) filters, thermal management system, control and auxiliaries, mechanical system, and application considerations, and discuss design

optimization, which presents methodology to achieve optimal design results for three-phase AC converters. Specific sample topics covered in Design of Three-phase AC Power Electronics Converters include: Models and characteristics for devices most commonly used in three-phase converters, including conventional Si devices, and emerging SiC and GaN devices Models and selection of various capacitors; characteristics and design of magnetics using different types of magnetic cores, with a focus on inductors Optimal three-phase AC converter design including design and selection of devices, AC line inductors, DC bus capacitors, EMI filters, heatsinks, and control. The design considers both steady-state and transient conditions Load and source impact converter design, such as motors and grid condition impacts For researchers and graduate students in power electronics, along with practicing engineers working in the area of three-phase AC converters, Design of Three-phase AC Power Electronics Converters serves as an essential resource for the subject and may be used as a textbook or industry reference.

Manual NGB. United States. National Guard Bureau,1950

Reliability Engineering and Services Tongdan Jin,2018-12-31 Offers a holistic approach to guiding product design, manufacturing, and after-sales support as the manufacturing industry transitions from a product-oriented model to service-oriented paradigm This book provides fundamental knowledge and best industry practices in reliability modelling, maintenance optimization, and service parts logistics planning. It aims to develop an integrated product-service system (IPSS) synthesizing design for reliability, performance-based maintenance, and spare parts inventory. It also presents a lifecycle reliability-inventory optimization framework where reliability, redundancy, maintenance, and service parts are jointly coordinated. Additionally, the book aims to report the latest advances in reliability growth planning, maintenance contracting and spares inventory logistics under non-stationary demand condition. Reliability Engineering and Service provides in-depth chapter coverage of topics such as: Reliability Concepts and Models; Mean and Variance of Reliability Estimates; Design for Reliability; Reliability Growth Planning; Accelerated Life Testing and Its Economics; Renewal Theory and Superimposed Renewals; Maintenance and Performance-Based Logistics; Warranty Service Models; Basic Spare Parts Inventory Models; Repairable Inventory Systems; Integrated Product-Service Systems (IPPS), and Resilience Modeling and Planning Guides engineers to design reliable products at a low cost Assists service engineers in providing superior after-sales support Enables managers to respond to the changing market and customer needs Uses end-of-chapter case studies to illustrate industry best practice Lifecycle approach to reliability, maintenance and spares provisioning Reliability Engineering and Service is an important book for graduate engineering students, researchers, and industry-based reliability practitioners and consultants.

Thirty Essays on Geometric Graph Theory János Pach,2012-12-15 In many applications of graph theory, graphs are regarded as geometric objects drawn in the plane or in some other surface. The traditional methods of abstract graph theory

are often incapable of providing satisfactory answers to questions arising in such applications. In the past couple of decades, many powerful new combinatorial and topological techniques have been developed to tackle these problems. Today geometric graph theory is a burgeoning field with many striking results and appealing open questions. This contributed volume contains thirty original survey and research papers on important recent developments in geometric graph theory. The contributions were thoroughly reviewed and written by excellent researchers in this field.

Power Electronics Semiconductor Devices Robert Perret,2013-03-01 This book relates the recent developments in several key electrical engineering R&D labs, concentrating on power electronics switches and their use. The first sections deal with key power electronics technologies, MOSFETs and IGBTs, including series and parallel associations. The next section examines silicon carbide and its potentiality for power electronics applications and its present limitations. Then, a dedicated section presents the capacitors, key passive components in power electronics, followed by a modeling method allowing the stray inductances computation, necessary for the precise simulation of switching waveforms. Thermal behavior associated with power switches follows, and the last part proposes some interesting perspectives associated to Power Electronics integration.

Mastering Physics for IIT-JEE Volume - II Rathi Rakesh, Physics for IIT-JEE

Cognitive Computation and Systems Bin Xu,Jianlong Qiu,2025-07-21 This book constitutes the refereed proceedings of the Third International Conference on Cognitive Computation and Systems, ICCCS 2024, held in Linyi, China, December 20-22, 2024. The 54 revised full papers presented in these proceedings were carefully reviewed and selected from 155 submissions. The papers are organized in the following topical sections: Part I: Cognitive computing and information processing; Intelligent cooperative control; and Learning and systems. Part II: Cognitive computing and information processing; Intelligent cooperative control; and Learning and systems.

Proceedings of the Institution of Electrical Engineers Institution of Electrical Engineers,1912 Vols. for 1970-79 include an annual special issue called IEE reviews.

WALCOM: Algorithm and Computation Md. Saidur Rahman,Shin-ichi Nakano,2012-02-27 This book constitutes the refereed proceedings of the 6th International Workshop on Algorithms and Computation, WALCOM 2012, held in Dhaka, Bangladesh, in February 2012. The 20 full papers presented together with 3 invited papers were carefully reviewed and selected from 50 submissions. The papers are grouped in topical sections on graph algorithms; computational geometry; approximation algorithms; graph drawing; string and data structures; and games and cryptography.

Technical Manual United States Department of the Army,1951

Identification and System Parameter Estimation 1982 G. A. Bekey,G. N. Saridis,2016-06-06 Identification and System Parameter Estimation 1982 covers the proceedings of the Sixth International Federation of Automatic Control (IFAC)

Symposium. The book also serves as a tribute to Dr. Naum S. Rajbman. The text covers issues concerning identification and estimation, such as increasing interrelationships between identification/estimation and other aspects of system theory, including control theory, signal processing, experimental design, numerical mathematics, pattern recognition, and information theory. The book also provides coverage regarding the application and problems faced by several engineering and scientific fields that use identification and estimation, such as biological systems, traffic control, geophysics, aeronautics, robotics, economics, and power systems. Researchers from all scientific fields will find this book a great reference material, since it presents topics that concern various disciplines.

Wireless Power Transfer for Electric Vehicles and Mobile Devices Chun T. Rim, Chris Mi, 2017-05-25 From mobile, cable-free re-charging of electric vehicles, smart phones and laptops to collecting solar electricity from orbiting solar farms, wireless power transfer (WPT) technologies offer consumers and society enormous benefits. Written by innovators in the field, this comprehensive resource explains the fundamental principles and latest advances in WPT and illustrates key applications of this emergent technology. Key features and coverage include: The fundamental principles of WPT to practical applications on dynamic charging and static charging of EVs and smartphones. Theories for inductive power transfer (IPT) such as the coupled inductor model, gyrator circuit model, and magnetic mirror model. IPTs for road powered EVs, including controller, compensation circuit, electro-magnetic field cancel, large tolerance, power rail segmentation, and foreign object detection. IPTs for static charging for EVs and large tolerance and capacitive charging issues, as well as IPT mobile applications such as free space omnidirectional IPT by dipole coils and 2D IPT for robots. Principle and applications of capacitive power transfer. Synthesized magnetic field focusing, wireless nuclear instrumentation, and future WPT. A technical asset for engineers in the power electronics, internet of things and automotive sectors, *Wireless Power Transfer for Electric Vehicles and Mobile Devices* is an essential design and analysis guide and an important reference for graduate and higher undergraduate students preparing for careers in these industries.

Hyperinflation in Zimbabwe Tara McIndoe-Calder, Tara Bedi, Rogelio Mercado, 2019-11-16 This book investigates the hyperinflation in Zimbabwe in the 2000s. The authors present a full description of the Zimbabwean hyperinflation in its relevant economic, historical and political context. They address parallels with other hyperinflations, discuss the economics of hyperinflation in general and of the Zimbabwean hyperinflation in particular, and provide a money demand estimation using a new dataset. The study concludes with several policy lessons. This book will be of interest to researchers in both social sciences and the humanities, as well as practitioners and policy-makers in development economics, and those in the banking industry.

Engineering Geology for Society and Territory - Volume 1 Giorgio Lollino, Andrea Manconi, John Clague, Wei Shan, Marta Chiarle, 2014-08-23 This book is one out of 8 IAEG XII Congress volumes and deals with climate change affecting

different natural processes and environments, such as slope dynamics, water courses, coastal and marine environments, hydrological and littoral processes and permafrost terrain. Due to climate change, major effects are also expected on territorial planning and infrastructure, particularly in extreme climate regions. The volume and its contents aim to analyze the role of engineering geology and the solutions it may offer with respect to the ongoing environmental changes. Contributions regard the modeling of both the factors and the effects induced by climate change. Potential impacts of the climate change on the common practice and routine work of engineering geologists are also analyzed, with particular attention to the risk assessment and mitigation procedures and to the adaptation measures adopted. The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15-19, 2014, analyze the dynamic role of engineering geology in our changing world and build on the four main themes of the congress: environment, processes, issues and approaches. The congress topics and subject areas of the 8 IAEG XII Congress volumes are: Climate Change and Engineering Geology. Landslide Processes. River Basins, Reservoir Sedimentation and Water Resources. Marine and Coastal Processes. Urban Geology, Sustainable Planning and Landscape Exploitation. Applied Geology for Major Engineering Projects. Education, Professional Ethics and Public Recognition of Engineering Geology. Preservation of Cultural Heritage.

Official Gazette of the United States Patent Office United States. Patent Office, 1918

Development of Test Procedures for Hybrid/electric Vehicles A. F. Burke, 1992

Fundamentals of Automotive Technology Kirk VanGelder, Kirk T. VanGelder, 2022-02-23 Fundamentals of Automotive Technology: Principles and Practice, Third Edition is a comprehensive resource that provides students with the necessary knowledge and skills to successfully master these tasks

Industrial Engineering, 1929

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