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Students entering today's engineering fields will find an increased emphasis on practical analysis, design, and control. They must be able to translate their advanced programming abilities and sound theoretical backgrounds into superior problem-solving skills. Electromechanical Systems and Devices facilitates the creation of critical problem-solvin

This volume presents the theory of control systems with sliding mode applied to electrical motors and power converters. It demonstrates the methodology of control design and the original algorithms of control and observation. Practically all semiconductor devices are used in power converters, that feed electrical motors, as power switches. A switch

The book is devoted to exploring the foundations of the theory of thin impedance vibrator antennas. The text provides a continuation of the classic theory of thin perfectly conducting vibrators. Many consider impedance conception one of the most universal models in the theory of wave processes, as it informs such a wide spectrum of uses in solving practical problems of electrodynamics. This topic provides an opportunity to further search analytical solutions, allowing a simplification of the mathematical formulation of the boundary problem. The theory strives to widen the boundaries of the impedance vibrator antennas application in complex modern radio-and-electronic systems and devices. The results of much original research conducted by the authors will be useful for practicing engineers and designers of antenna and waveguide systems. The book is written in an academic style, and can be used to teach students and post graduates about radiotechnical and radiophysical specialities. The conclusion of the book lists many actual applied problems, which can provide inspiration for several potential PhD projects. Topics covered in this book are: □general questions of the theory of impedance vibrators in the spatial-frequency representation □electromagnetic waves radiation by impedance vibrators in free space and material mediums □electromagnetic waves radiation by impedance vibrators in material mediums over the perfectly conducting plane □electromagnetic waves scattering by irregular impedance vibrators in free space □generalized method of induced electromotive forces for investigation of the characteristics of impedance vibrators □radiation of electromagnetic waves by radial impedance vibrators on the perfectly conducting sphere □electromagnetic waves scattering by impedance vibrators in the rectangular waveguide

Recent trends in engineering show increased emphasis on integrated analysis, design, and control of advanced electromechanical systems, and their scope continues to expand. Mechatronics-a breakthrough concept-has evolved to attack, integrate, and solve a variety of emerging problems in engineering, and there appears to be no end to its application. It has become essential for all engineers to understand its basic theoretical standpoints and practical applications. Electromechanical Systems, Electric Machines, and Applied Mechatronics presents a unique combination of traditional engineering topics and the latest technologies, integrated to stimulate new advances in the analysis and design of state-of-the-art electromechanical systems. With a focus on numerical and analytical methods, the author develops the rigorous theory of electromechanical systems and helps build problem-solving skills. He also stresses simulation as a critical aspect of developing and prototyping advanced systems. He uses the MATLABTM environment for his examples and includes a MATLABTM diskette with the book, thus providing a solid introduction to this standard engineering tool. Readable, interesting, and accessible, Electromechanical Systems, Electric Machines, and Applied Mechatronics develops a thorough understanding of the integrated perspectives in the design and analysis of electromechanical systems. It covers the basic concepts in mechatronics, and with numerous worked examples, prepares the reader to use the results in engineering practice. Readers who master this book will know what they are doing, why they are doing it, and how to do it.

Nanophotonics is where photonics merges with nanoscience and nanotechnology, and where spatial confinement considerably modifies light propagation and light-matter interaction. Describing the basic phenomena, principles, experimental advances and potential impact of nanophotonics, this graduate-level textbook is ideal for students in physics, optical and electronic engineering and materials science. The textbook highlights practical issues, material properties and device feasibility, and includes the basic optical properties of metals, semiconductors and dielectrics. Mathematics is kept to a minimum and theoretical issues are reduced to a conceptual level. Each chapter ends in problems so readers can monitor their understanding of the material presented. The introductory quantum theory of solids and size effects in semiconductors are considered to give a parallel discussion of wave optics and wave mechanics of nanostructures. The physical and historical interplay of wave optics and quantum mechanics is traced. Nanoplasmonics, an essential part of modern photonics, is also included.

Dynamics systems (living organisms, electromechanical and industrial systems, chemical and technological processes, market and ecology, and so forth) can be considered and analyzed using information and systems theories. For example, adaptive human behavior can be studied using automatic feedback control. As an illustrative example, the driver controls a car changing the speed and steer ing wheels using incoming information, such as traffic and road conditions. This book focuses on the most important and manageable topics in applied multivariable control with application to a wide class of electromechanical dynamic systems. A large spectrum of systems, familiar to electrical, mechanical, and aerospace stu dents, engineers, and scholars, are thoroughly studied to build the bridge between theory and practice as well as to illustrate the practical application of control theory through illustrative examples. It is the author's goal to write a book that can be used to teach undergraduate and graduate classes in automatic control and nonlin ear control at electrical, mechanical, and aerospace engineering departments. The book is also addressed to engineers and scholars, and the examples considered allow one to implement the theory in a great variety of industrial systems. The main purpose of this book is to help the reader grasp the nature and significance of multivariable control.

'This book would appeal to those who are interested in pulse power technology and pulse power generation. The fascinating ability to be able to achieve such incredible power levels with such compact devices is astonishing and could open up many new applications using the methods described in this well-written book, that is loaded with a wealth of experimental data, technical background on ferroelectric materials, high explosives, references, and many design ideas for making compact FEG's.'IEEE Electrical Insulation MagazineExplosive Ferroelectric Generators: From Physical Principles to Engineering is an exciting new book that takes the readers inside the world of explosive ferroelectric generators guided by international expert, Dr Sergey I Shkuratov. It acquaints the reader with the principles of operation of ferroelectric generators and provides details on how to design, build and test the devices which are the most developed and the most near-term for practical applications. Containing a considerable amount of experimental data that has been obtained by the author and his team over a period of 20 years, this is the first book that provides key information on theory, performance and applications of ferroelectric generators. It is a fabulous reference for electrical and electronic engineers working with pulsed power systems, researchers, professors, postgraduate, graduate and undergraduate students.