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This book emphasizes in detail the applicability of the Optimal Homotopy Asymptotic Method to various engineering problems. It is a continuation of the book “Nonlinear Dynamical Systems in Engineering: Some Approximate Approaches”, published at Springer in 2011 and it contains a great amount of practical models from various fields of engineering such as classical and fluid mechanics, thermodynamics, nonlinear oscillations, electrical machines and so on. The main structure of the book consists of 5 chapters. The first chapter is introductory while the second chapter is devoted to a short history of the development of homotopy methods, including the basic ideas of the Optimal Homotopy Asymptotic Method. The last three chapters, from Chapter 3 to Chapter 5, are introducing three distinct alternatives of the Optimal Homotopy Asymptotic Method with illustrative applications to nonlinear dynamical systems. The third chapter deals with the first alternative of our approach with two iterations. Five applications are presented from fluid mechanics and nonlinear oscillations. The Chapter 4 presents the Optimal Homotopy Asymptotic Method with a single iteration and solving the linear equation on the first approximation. Here are treated 32 models from different fields of engineering such as fluid mechanics, thermodynamics, nonlinear damped and undamped oscillations, electrical machines and even from physics and biology. The last chapter is devoted to the Optimal Homotopy Asymptotic Method with a single iteration but without solving the equation in the first approximation. Intraoperative neurophysiologic monitoring has shown a steady increase in use for surgeries in which neural structures may be at risk of injury. Some of the surgical techniques used carry inherent risks, and these risks have changed the way in which neurophysiologic monitoring has impacted patient safety and quality of care during surgical procedures. It is therefore crucial that those performing and interpreting intraoperative neurophysiologic monitoring are adequately trained. This book is a comprehensive guide to the current practice of intraoperative neurophysiology with chapters on various modalities and clinical uses. Separate chapters devoted to anesthesia, operating room environment, special considerations in pediatrics and the interpretation and reporting of neurophysiologic data are useful and complementary. Questions and detailed answers on the topics covered can be found on the accompanying website for study review. This book will be useful to the trainee as well as the neurophysiologist already in practice. Neural networks are not rigidly wired but rather highly plastic structures, the functional architecture of which can be actively reorganized in response to external or internal

events. Lesions of such networks induce plastic processes which in time may lead to a recovery of the initially disrupted function. This type of neural plasticity is the main focus of the book, which presents a broad spectrum of experimental paradigms for lesion-induced plasticity as in the spinal cord, the vestibular, oculomotor, visual and olfactory system, the cerebellum and the cerebral cortex, including recent methodological developments. Concepts and perspectives in understanding neural plasticity are reported in reviews and original research reports and are thoroughly discussed. This book, together with its associated computer simulation lessons, teaches students about neurophysiological concepts, and then the online software further expands their knowledge through modeling experiments. Worked Examples in Electrical Machines and Drives discusses methods in predicting and explaining electromechanical performance of several devices. The book is comprised of seven chapters that sequence the examples at increasing levels of difficulty. Chapter 1 provides an introduction and reviews the basic theories. The second chapter covers transformers, and the third chapter tackles d.c. machines. Chapter 4 is concerned with induction machines, while Chapter 5 deals with synchronous machines. Chapter 6 covers transient behavior, and Chapter 7 talks about power-electronic/electrical machine drives. The book will be of great use to students and instructors of schools concerned with electronic devices such as in electrical engineering, and can help enrich their lectures and practical classes. This book presents the applications of non-volatile CBRAM/MIM switching technology for electronically reconfigurable passive RF and microwave devices, together with theory and methods for application in rewritable chipless RFID tags. Conductive Bridging Random Access Memory (CBRAM) is a renowned and commercially used non-volatile memory concept. Having evolved over the past few decades, it is currently identified as an efficient non-volatile RF switching technology. This book presents recent research on this topic, focusing on the development of a new generation of low-cost non-volatile RF switches and their applications, demonstrating both high performance and flexibility of implementation. It includes the experimental realization of various prototypes of RF and microwave devices utilizing this technology, along with relevant analysis of mathematical and electrical models, and detailed discussions of future aspects. All devices presented are compatible with mass industrial production at an economically efficient budget through optimized fabrication steps, without the requirement of sophisticated “clean room” processes among them. Each issue of Transactions B is devoted to a specific area of the biological sciences, including clinical science. All papers are peer reviewed and edited to the highest standards. Published on the 29th of each month, Transactions B is essential reading for all biologists. This book constitutes the refereed proceedings of the 9th IFIP WG 5.5/SOCOLNET Advanced Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2018, held in Costa de Caparica, Portugal, in May 2018. The 30 revised full papers presented were carefully reviewed and selected from 74 submissions. The papers present selected results produced in engineering doctoral programs and focus on technological innovation for resilient systems. Research results and ongoing work are presented, illustrated and discussed in the following areas: collaborative systems, decision support systems, supervision systems, energy management, smart grids, sensing systems, electrical systems, simulation and analysis, monitoring systems, and energy distribution systems. Fritzson covers the Modelica language in impressive depth from the basic concepts such as cyber-physical, equation-base, object-oriented, system, model, and simulation, while also incorporating over a hundred exercises and their solutions for a tutorial, easy-to-read experience. The only book with complete Modelica 3.3 coverage Over one hundred exercises and solutions Examines basic concepts such as cyber-physical, equation-based, object-oriented, system, model, and simulation A GUIDE TO THE FUNDAMENTAL THEORY AND PRACTICE OF OPTICAL COMMUNICATION Fiber Optic and Atmospheric Optical Communication offers a much needed guide to characterizing and

overcoming the drawbacks associated with optical communication links that suffer from various types of fading when optical signals with information traverse these wireless (atmospheric) or wired (fiber optic) channels. The authors—noted experts on the topic—present material that aids in predicting the capacity, data rate, spectral efficiency, and bit-error-rate associated with a channel that experiences fading. They review modulation techniques and methods of coding and decoding that are useful when implementing communications systems. The book also discusses how to model the channels, including treating distortion due to the various fading phenomena. Light waves and their similarity to radio waves are explored, and the way light propagates through the atmosphere, through materials, and through the boundary between two materials is explained. This important book: Characterizes principal optical sources and detectors, including descriptions of their advantages and disadvantages, to show how to design systems from start to finish Provides a new method of predicting and dealing with the dispersive properties of fiber optic cables and other optical guiding structures in order to increase data stream capacity Highlights effects of material and multimode (multi-ray) dispersion during propagation of optical signals with data through fiber optic channels Presents modulation techniques and methods of coding and decoding that are useful when implementing communications systems Written for professionals dealing with optical and electro-optical communications, Fiber Optic and Atmospheric Optical Communication explores the theory and practice of optical communication both when the optical signal is propagating through the atmosphere and when it is propagating through an optical fiber. Control Systems Engineering using MATLAB provides students with a concise introduction to the basic concepts in automatic control systems and the various methods of solving its problems. Designed to comfortably cover two academic semesters, the style and form of the book makes it easily comprehensible for all engineering disciplines that have control system courses in their curricula. The solutions to the problems are programmed using MATLAB 6.0 for which the simulated results are provided. The MATLAB Control Systems Toolbox is provided in the Appendix for easy reference. The book would be useful as a textbook to undergraduate students and as quick reference for higher studies. For quick, accurate, and efficient coding, pick this best-selling HCPCS professional reference! From coding expert Carol J. Buck, 2016 HCPCS Level II, Professional Edition provides a spiral-bound, easy-to-use guide to the latest Healthcare Common Procedure Coding System codes. It helps you locate specific codes, comply with coding regulations, optimize reimbursement, report patient data, code Medicare cases, master ICD-10 coding, and more. This professional edition features a full-color design, Netter's Anatomy illustrations, dental codes, and ASC (Ambulatory Surgical Center) payment and status indicators. At-a-glance code listings and distinctive symbols identify all new, revised, and deleted codes for 2016. UNIQUE! Full-color Netter's Anatomy illustrations clarify complex anatomic information and how it affects coding. The American Hospital Association Coding Clinic? for HCPCS citations provide a reference point for information about specific codes and their usage. Colorful design with color-coded tables makes locating and identifying codes faster and easier. American Dental Association (ADA) Current Dental Terminology code sets offer access to all dental codes in one place. Drug code annotations identify brand-name drugs as well as drugs that appear on the National Drug Class (NDC) directory and other Food and Drug Administration (FDA) approved drugs. Quantity feature highlights units of service allowable per patient, per day, as listed in the Medically Unlikely Edits (MUEs) for enhanced accuracy on claims. Durable medical equipment, prosthetics, orthotics, and supplies (DMEPOS) indicators clearly identify supplies to report to durable medical third-party payers. Ambulatory Surgery Center (ASC) payment and status indicators show which codes are payable in the Hospital Outpatient Prospective Payment System. Information on coverage provides alerts when codes have special instructions, are not valid or covered by Medicare, or may be paid at the carrier's discretion. Jurisdiction

symbols show the appropriate contractor to be billed for suppliers submitting claims to Medicare contractors, Part B carriers, and Medicare administrative contractors submitting for DMEPOS services provided. Age/Sex edits identify codes for use only with patients of a specific age or sex. Physician Quality Reporting System icon identifies codes that are specific to PQRS measures. Spiral binding allows you to lay the book flat for convenient access in practice settings. Codingupdates.com website includes quarterly updates to HCPCS codes and content, and the opportunity to sign up for e-mail notifications of the newest updates. UPDATED 2016 official code set ensures compliance with current HCPCS standards, for fast and accurate coding. There is no available information at this time. Author will provide once available. This book presents the set of papers accepted for presentation at the International Conference Automation, held in Warsaw, 2-4 March of 2016. It presents the research results presented by top experts in the fields of industrial automation, control, robotics and measurement techniques. Each chapter presents a thorough analysis of a specific technical problem which is usually followed by numerical analysis, simulation, and description of results of implementation of the solution of a real world problem. The presented theoretical results, practical solutions and guidelines will be valuable for both researchers working in the area of engineering sciences and for practitioners solving industrial problems. The aim of this book is to introduce students to the basic electrical and electronic principles needed by technicians in fields such as electrical engineering, electronics and telecommunications. The emphasis is on the practical aspects of the subject, and the author has followed his usual successful formula, incorporating many worked examples and problems (answers supplied) into the learning process. Electrical Principles and Technology for Engineering is John Bird's core text for Further Education courses at BTEC levels N11 and N111 and Advanced GNVQ. It is also designed to provide a comprehensive introduction for students on a variety of City & Guilds courses, and any students or technicians requiring a sound grounding in Electrical Principles and Electrical Power Technology. This book constitutes the thoroughly refereed post-conference proceedings of the 11th International Conference on Membrane Computing, CMC11, held in Jena, Germany, in August 2010 - continuing the fruitful tradition of 10 previous editions of the International Workshop on Membrane Computing (WMC). The 23 revised full papers presented together with 4 invited papers and the abstracts of 2 keynote lectures were carefully reviewed and selected from numerous submissions. The papers address in this volume cover all the main directions of research in membrane computing, ranging from theoretical topics in the mathematics and computer science to application issues. A special attention was paid to the interaction of membrane computing with biology and computer science, focusing both on the biological roots of membrane computing, on applications of membrane computing in biology and medicine, and on possible electronically based and bioinspired implementations. This book presents the physical characteristics and possible device applications of europium monoxide as well as materials based on it. It reveals the suitability of this material for device applications in super- and semiconductor spin electronics. Ferromagnetic semiconductors like europium monoxide have contributed to a fascinating research field in condensed matter physics. In the book are presented the electronic and magnetic properties and thermal and resonance parameters of this material, its peculiarities in external fields as a function of non-stoichiometry, doping level, both in single-crystal and thin-film states. Particular attention is paid to the possibility to use this monoxide or its solid solutions (composites) unconventionally for creating spin electronics structures which work at room temperature conditions. This book appeals to researchers, graduate students and professionals engaged in the development of semiconductor spin electronics and computer devices, technologists and theoretical physicists. It is important for the calculation, development and creation of spin memory devices for a quantum computer. A modified Linear Estimation Approach was performed to reconstruct current sources within the heart. Based on MRI data sets the

Boundary Element Method was used to create tailored multicompartment models of the human thorax which were used to solve the forward problem of magnetocardiography. The ability of the proposed method was demonstrated for the localization of a single current dipole as an example of a focal source. By means of introducing small shiftings to all reconstruction dipoles during linear estimation solution as well as performing a successive focussing strategy ignoring places without significant electrical activity the method could easily be extended to the reconstruction of real 3D sources. Based on a special minimum-norm solution the source volume can be estimated applying a finite element approximation using cube elements. The size of an extended current source can be estimated by superimposing the reconstructed dipoles to an equivalent dipole and comparing the corresponding volume with the sphere which would be related to the equivalent dipole. The deviation of these volumes can be taken as a criterion for non-dipolarity of sources. &Quot;This book is devoted to the physical properties of non-ideal plasma which are compressed so strongly that the effects of interparticle interactions govern its behavior. In this volume, the methods of non-ideal plasma generation and diagnostics are considered. The experimental results are given and the main theoretical models of the non-ideal plasma state are discussed. The problems of thermodynamics, electro-physics, optics and dynamic stability are covered."--

BOOK JACKET. These Proceedings are published to give a full account of the Fifth International Conference on Atmospheric Electricity held in September 1974 in Garmisch-Partenkirchen in the Bavarian Alps in Germany. Traditionally, the Proceedings of these Conferences have served as reference books updating the textbooks and monographs on Atmospheric Electricity. As treated by these Conferences, Atmos pheric Electricity covers all aspects of this science, including the processes and problems which reach out into the Earth's environment as well as analogous processes on other planets and on the Moon. A history of these Conferences, an account of their purpose, and an outline of the scope and the preparation is to be found at the end of these Proceedings. There, also the Business Meetings of the involved organizations are mentioned. The Proceedings closely follow the original program and are accordingly organized into "Sessions". The papers printed in each "Session" in this book are the ones which were accepted for the sessions of the Conference with the same numbers and titles. Only the two "Special Sessions" have been given different numbers in the Proceedings, i.e. 2a and 10. In principle, all papers which were accepted by the Executive Panel either for full oral presentation or for printing in the Proceedings only, have in fact been included in these Proceedings, whether they were presented or not. In the latter case, a special note is made to explain the absence of a discussion. The book deals with methods for the

description and design of electromagnetic components. Both linear and nonlinear components are covered. For electrical simulations the necessary equivalent circuit diagrams are derived and a general methodology is developed. Possible influences on properties via material selection, winding design and premagnetisation of sections are treated. Measurement characterization, modeling, possible errors and model limits are dealt with extensively. In the last chapter examples are discussed. Interest in filter theory and design has been growing with the telecommunications industry since the late nineteenth century. Now that telecommunications has become so critical to industry, filter research has assumed even greater importance at companies and academic institutions around the world. The CRC Handbook of Electrical Filters fills in the gaps for engineers and scientists who need a basic introduction to the subject. Unlike the currently available textbooks, which are filled with detailed, highly technical analysis geared to the specialist, this practical guide provides useful information for the non-specialist about the various types of filters, their design, and applications. The handbook covers approximation theory and methods and introduces CAD packages that perform approximation and synthesis for both analog and digital filters. Also included are design methods for LCR, active-RC, digital, mechanical, and switched capacitor (SC) filters.

A thorough survey of current design trends rounds out this complete assessment of a key field of study. Current developments in the renewable energy field, and the trend toward self-production and self-consumption of energy, has led to increased interest in the means of storing electrical energy; a key element of sustainable development. This book provides an in-depth view of the environmentally responsible energy solutions currently available for use in the building sector. It highlights the importance of storing electrical energy, demonstrates the many services that the storage of electrical energy can bring, and discusses the important socio-economic factors related to the emergence of smart buildings and smart grids. Finally, it presents the methodological tools needed to build a system of storage-based energy management, illustrated by concrete, pedagogic examples. Discover how statistical methods and tools are vital for today's managers as you learn how to apply these tools to real business problems. STATISTICS FOR MANAGEMENT AND ECONOMICS, 11E emphasizes applications over calculation using a proven three-step ICI approach to problem solving. Readers learn how to IDENTIFY the correct statistical technique by focusing on the problem objective and data type; how to COMPUTE the statistics by hand or using Excel or XLSTAT; and how to INTERPRET results in the context of the problem. Extensive data-driven examples, exercises, and cases address the functional areas of business and demonstrate how marketing managers, financial analysts, accountants, and economists rely on statistical applications. Engaging cases focus on climate change and the relationship between payroll and wins in professional sports, while dozens of exercises feature the returns on 40 stocks, which are used to develop the market model and portfolio diversification. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This volume of Progress in Brain Research documents research presented at the 26th International Summer School of Brain Research (Amsterdam, Jun/Jul 2010) and looks at how the oscillations that characterize brain activity vary between task performance - the EEG power and performance modulations, rest - the MRI default mode and other networks, and sleep - the cortical slow oscillations. Studies over the past decade indicate that the study of these slow oscillations is essential for our understanding of plasticity, memory, brain structure from synapse to default mode network, cognition, consciousness and ultimately for our understanding of the mechanisms and functions of sleep and vigilance. Leading authors review the state-of-the-art in their field of investigation and provide their views and perspectives for future research Chapters are extensively referenced to provide readers with a comprehensive list of resources on the topics covered All chapters include comprehensive background information and are written in a clear form that is also accessible to the non-specialist