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electronic design automation software

user's guide - Maxwell 2D

Ansys Maxwell 2d 14 User Guide

G. Casciola



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Smart Technologies in Urban Engineering Olga Arsenyeva, Tatiana Romanova, Maria Sukhonos, Yevgen Tsegelnyk, 2022-11-29 This book offers a comprehensive review of smart technologies and perspectives on their application in urban engineering. It covers a wide range of applications from transport and energy management to digital manufacturing, smart city environment and sustainable development, providing readers with new ideas for future research and collaborations. This book presents select papers from the International Conference on Smart Technologies in Urban Engineering STUE 2022 held to commemorate the 100th anniversary of the O. M. Beketov National University of Urban Economy in Kharkiv, Ukraine, on June 9-11, 2022. All the contributions offer plenty of valuable information and would be of great benefit to the experience exchange among scientists in urban engineering. *Electromagnetic Field Analysis Guide*, 1998 **Soft-Switching**

Technology for Three-phase Power Electronics Converters Dehong Xu, Rui Li, Ning He, Jinyi Deng, Yuying Wu, 2021-12-09 **Soft Switching Technology for Three phase Power Electronics Converters** Discover foundational and advanced topics in soft switching technology, including ZVS three phase conversion. In *Soft Switching Technology for Three phase Power Electronics Converters*, an expert team of researchers delivers a comprehensive exploration of soft switching three phase converters for applications including renewable energy and distribution power systems, AC power sources, UPS, motor drives, battery chargers, and more. The authors begin with an introduction to the fundamentals of the technology, providing the basic knowledge necessary for readers to understand the following articles. The book goes on to discuss three phase rectifiers and three phase grid inverters. It offers prototypes and experiments of each type of technology. Finally, the authors describe the impact of silicon carbide devices on soft switching three phase converters, studying the improvement in efficiency and power density created via the introduction of silicon carbide devices. Throughout, the authors put a special focus on a family of zero voltage switching (ZVS) three phase converters and related pulse width modulation (PWM) schemes. The book also includes a thorough introduction to soft switching techniques, including the classification of soft switching for three phase converter topologies, soft switching types, and a generic soft switching pulse width modulation known as Edge Aligned PWM. A comprehensive exploration of classical soft switching three phase converters, including the switching of power semiconductor devices and DC and AC side resonance. Practical discussions of ZVS space vector modulation for three phase converters, including the three phase converter commutation process. In-depth examinations of three phase rectifiers with compound active clamping circuits. Perfect for researchers, scientists, professional engineers, and undergraduate and graduate students studying or working in power electronics. *Soft Switching Technology for Three phase Power Electronics Converters* is also a must-read resource for research and development engineers involved with the design and development of power electronics.

Numerical Methods for Energy Applications Naser Mahdavi Tabatabaei, Nicu Bizon, 2021-03-22 This book provides a thorough guide to the use of numerical methods in energy systems and applications. It presents methods for analysing

engineering applications for energy systems discussing finite difference finite element and other advanced numerical methods Solutions to technical problems relating the application of these methods to energy systems are also thoroughly explored Readers will discover diverse perspectives of the contributing authors and extensive discussions of issues including a wide variety of numerical methods concepts and related energy systems applications systems equations and optimization partial differential equations and finite difference method methods for solving nonlinear equations special methods and their mathematical implementation in multi energy sources numerical investigations of electrochemical fields and devices and issues related to numerical approaches and optimal integration of energy consumption This is a highly informative and carefully presented book providing scientific and academic insight for readers with an interest in numerical methods and energy systems

Magnetostatic Modelling of Thin Layers Using the Method of Moments And Its Implementation in OCTAVE/MATLAB Roman Szewczyk,2018-04-10 This book presents an efficient and robust method of modelling the magnetostatic properties of different technical elements especially thin layers for magnetic sensors The solutions presented utilise the principles of the method of moments However the principles have been developed both from the point of view of physical analyses as well as from the point of view of numerical optimisation To enable cost efficient use of the solutions for commercial applications in industry the proposed method was implemented as a code optimised for use in the open source OCTAVE environment The scripts can be also used with MATLAB software which is more user friendly especially for less experienced users

Advances in Artificial Intelligence Application in Data Analysis and Control of Smart Grid Xin Ning,Imr Fattah,Praveen Kumar Donta,Mohamed M.F. Darwish,2023-11-23 Smart grid SG is considered a form of intelligent system that allows the electric grid to perform its functions efficiently The SG is a network that allows for the flow of electrical energy and data where the data is used to make intelligent decisions in the operation of the electric grid Artificial intelligence AI techniques such as expert system ES Machine Learning ML and deep Learning DL have brought an advancing frontier in power electronics and power engineering with their powerful data processing capabilities The SG relies on the flow of data to make its intelligent control therefore AI technology is a perfect fit for the SG The application of AI technology in the SG has the potential to improve the intelligence of the SG This research topic is focused on ways of improving the data analysis and control of SG by leveraging technologies Manuscripts with the progress made in solving a range of miscellaneous and critical problems in SG by leveraging AI methods such as ES ML and DL methods are welcome Reviews and original research that describe the latest developments in this field are considered for publication in this research topic The scope of this Research Topic will include the following themes but are not limited to 1 Data driven and artificial intelligence approaches to enhancing flexibility and resilience of SG 2 Expert system Machine Learning and Deep Learning reinforcement learning and transfer learning for applications in SG 3 AI for development in ensuring high reliability and stability of electric power system with high penetration of renewable energy 4 AI for studies in operation protection

integrated planning and control of SG systems 5 AI for development in diagnostics and diagnostics for SG 6 Health monitoring of a modern wind generation system using an adaptive neuro fuzzy system 7 Space vector fault pattern identification of a smart grid subsystem by neural mapping 8 Control techniques mathematical programming methods optimization techniques and metaheuristics applied in SG 9 AI and optimization techniques for green energy and carbon footprint 10 Novel applications of AI based smart grids in smart cities smart transportation smart healthcare and smart manufacturing

Computers in Engineering ,1988 *Government Reports Announcements & Index* ,1988-07 User Guide for FAME(Fast Algorithm of Maxwell's Equations). ,2015 User's Manual ANSYS.,1992 **Xccurv: the 2D Modeller** G. Casciola,2000 MSC - Nastran Advanced Dynamic Analysis User's Guide David N. Herting,1997-06-01

MICROMECHANICS ANALYSIS CODE (MAC). USER GUIDE: VERSION 2.0... NASA-TM-107290... MAR. 14, 1997 ,1998*

PE2D User Guide C. S. Biddlecombe,Rutherford Appleton Laboratory,1982 **WATFIV User's Guide** ,1981

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