

Student Edition



COMPUTATIONAL ELECTROMAGNETIC TRANSIENTS

Modeling, Solution Methods and Simulation

R. Ramanujam



Computational Electromagnetic Transients Modeling Solution Methods And Simulation

Sergei Silvestrov, Milica Rančić



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Computational Electromagnetic Transients R. Ramanujam, 2014-07-30 Provides the theory models solution methods and simulation techniques evolved for several versions of EMTP over the last five decades The focus is on one particular version Microtran The focus of the book is modelling and simulation algorithms for digital simulation and computation Transient Analysis of Power Systems Juan A. Martinez-Velasco, 2020-02-10 A hands on introduction to advanced applications of power system transients with practical examples Transient Analysis of Power Systems A Practical Approach offers an authoritative guide to the traditional capabilities and the new software and hardware approaches that can be used to carry out transient studies and make possible new and more complex research The book explores a wide range of topics from an introduction to the subject to a review of the many advanced applications involving the creation of custom made models and tools and the application of multicore environments for advanced studies The authors cover the general aspects of the transient analysis such as modelling guidelines solution techniques and capabilities of a transient tool The book also explores the usual application of a transient tool including over voltages power quality studies and simulation of power electronics devices In addition it contains an introduction to the transient analysis using the ATP All the studies are supported by practical examples and simulation results This important book Summarises modelling guidelines and solution techniques used in transient analysis of power systems Provides a collection of practical examples with a detailed introduction and a discussion of results Includes a collection of case studies that illustrate how a simulation tool can be used for building environments that can be applied to both analysis and design of power systems Offers guidelines for building custom made models and libraries of modules supported by some practical examples Facilitates application of a transients tool to fields hardly covered with other time domain simulation tools Includes a companion website with data input files of examples presented case studies and power point presentations used to support cases studies Written for EMTP users electrical engineers Transient Analysis of Power Systems is a hands on and practical guide to advanced applications of power system transients that includes a range of practical examples **Modeling and Analysis of Electrical Machine** R. Ramanujam, 2018-08-10 This book will serve as a stepping stone for the undergraduate students in Electrical Electronics Engineering for further specialization It is a core subject in the curriculum for post graduate Power Electronics and Power Systems Engineering disciplines offered by most of the universities and educational institutions The book starts with the fundamental concepts such as phasors and reference frames which are not usually elaborated at the undergraduate level thereby providing smooth transition to more advanced topics as specified in the various syllabi The book is also suitable for final semester undergraduate students and practising engineers Electromagnetic Computation Methods for Lightning Surge Protection Studies Yoshihiro Baba, Vladimir A. Rakov, 2016-02-02 Presents current research into electromagnetic computation theories with particular emphasis on Finite Difference Time Domain Method This book is the first to consolidate current research and to examine the

theories of electromagnetic computation methods in relation to lightning surge protection The authors introduce and compare existing electromagnetic computation methods such as the method of moments MOM the partial element equivalent circuit PEEC the finite element method FEM the transmission line modeling TLM method and the finite difference time domain FDTD method The application of FDTD method to lightning protection studies is a topic that has matured through many practical applications in the past decade and the authors explain the derivation of Maxwell's equations required by the FDTD and modeling of various electrical components needed in computing lightning electromagnetic fields and surges with the FDTD method The book describes the application of FDTD method to current and emerging problems of lightning surge protection of continuously more complex installations particularly in critical infrastructures of energy and information such as overhead power lines air insulated sub stations wind turbine generator towers and telecommunication towers Both authors are internationally recognized experts in the area of lightning study and this is the first book to present current research in lightning surge protection Examines in detail why lightning surges occur and what can be done to protect against them Includes theories of electromagnetic computation methods and many examples of their application Accompanied by a sample printed program based on the finite difference time domain FDTD method written in C program

Engineering Mathematics I Sergei Silvestrov, Milica Rančić, 2016-11-26 This book highlights the latest advances in engineering mathematics with a main focus on the mathematical models structures concepts problems and computational methods and algorithms most relevant for applications in modern technologies and engineering In particular it features mathematical methods and models of applied analysis probability theory differential equations tensor analysis and computational modelling used in applications to important problems concerning electromagnetics antenna technologies fluid dynamics material and continuum physics and financial engineering The individual chapters cover both theory and applications and include a wealth of figures schemes algorithms tables and results of data analysis and simulation Presenting new methods and results reviews of cutting edge research and open problems for future research they equip readers to develop new mathematical methods and concepts of their own and to further compare and analyse the methods and results discussed The book consists of contributed chapters covering research developed as a result of a focused international seminar series on mathematics and applied mathematics and a series of three focused international research workshops on engineering mathematics organised by the Research Environment in Mathematics and Applied Mathematics at Mälardalen University from autumn 2014 to autumn 2015 the International Workshop on Engineering Mathematics for Electromagnetics and Health Technology the International Workshop on Engineering Mathematics Algebra Analysis and Electromagnetics and the 1st Swedish Estonian International Workshop on Engineering Mathematics Algebra Analysis and Applications It serves as a source of inspiration for a broad spectrum of researchers and research students in applied mathematics as well as in the areas of applications of mathematics considered in the book

Real-Time Electromagnetic Transient Simulation of AC-DC Networks Venkata

Dinavahi, Ning Lin, 2021-06-22 Explore a comprehensive and state of the art presentation of real time electromagnetic transient simulation technology by leaders in the field Real Time Electromagnetic Transient Simulation of AC DC Networks delivers a detailed exposition of field programmable gate array FPGA hardware based real time electromagnetic transient EMT emulation for all fundamental equipment used in AC DC power grids The book focuses specifically on detailed device level models for their hardware realization in a massively parallel and deeply pipelined manner as well as decomposition techniques for emulating large systems Each chapter contains fundamental concepts apparatus models solution algorithms and hardware emulation to assist the reader in understanding the material contained within Case studies are peppered throughout the book ranging from small didactic test circuits to realistically sized large scale AC DC grids The book also provides introductions to FPGA and hardware in the loop HIL emulation procedures and large scale networks constructed by the foundational components described in earlier chapters With a strong focus on high voltage direct current power transmission grid applications Real Time Electromagnetic Transient Simulation of AC DC Networks covers both system level and device level mathematical models Readers will also enjoy the inclusion of A thorough introduction to field programmable gate array technology including the evolution of FPGAs technology trends hardware architectures and programming tools An exploration of classical power system components e g linear and nonlinear passive power system components transmission lines power transformers rotating machines and protective relays A comprehensive discussion of power semiconductor switches and converters i e AC DC and DC DC converters and specific power electronic apparatus such as DC circuit breakers An examination of decomposition techniques used at the equipment level as well as the large scale system level for real time EMT emulation of AC DC networks Chapters that are supported by simulation results from well defined test cases and the corresponding system parameters are provided in the Appendix Perfect for graduate students and professional engineers studying or working in electrical power engineering Real Time Electromagnetic Transient Simulation of AC DC Networks will also earn a place in the libraries of simulation specialists senior modeling and simulation engineers planning and design engineers and system studies engineers

Computational Aspects of Electromechanical Energy

Converters and Drives International Association for Mathematics and Computers in Simulation. International Conference, Réal-Paul Bouchard, Guy Olivier, Ecole polytechnique (Montréal, Québec). Département de génie électrique et de génie informatique, 1993

Proceedings of the Ninth Power Systems Computation Conference Cascais Portugal, 2016-06-06

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Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications

(FICTA) Suresh Chandra Satapathy, Siba K. Udgata, Bhabendra Narayan Biswal, 2012-12-14 The volume contains the papers presented at FICTA 2012 International Conference on Frontiers in Intelligent Computing Theory and Applications held on December 22-23, 2012, in Bhubaneswar Engineering College, Bhubaneswar, Odisha, India. It contains 86 papers contributed by authors from the globe. These research papers mainly focused on the application of intelligent techniques which includes evolutionary computation techniques like genetic algorithm, particle swarm optimization, teaching learning based optimization, etc. for various engineering applications such as data mining, image processing, cloud computing, networking, etc.

Adopting the Song of Phrase: An Psychological Symphony within **Computational Electromagnetic Transients Modeling Solution Methods And Simulation**

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