

SECOND EDITION

COMPUTATIONAL METHODS for ELECTRIC POWER SYSTEMS

MARIESA L. CROW



CRC Press
Taylor & Francis Group

Computational Methods For Electric Power Systems

Second Edition Electric Power Engineering Series

Mohamed E. El-Hawary



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Computational Methods for Electric Power Systems is an introductory overview of computational methods used for analytical studies in power systems and other engineering and scientific fields As power systems increasingly operate under stressed conditions techniques such as computer simulation remain integral to control and security assessment This volume analyzes the algorithms used in commercial analysis packages and presents salient examples of their implementation that are simple and thorough enough to be reproduced easily Most of the examples were produced using MATLAB language Presents General Theory Applicable to Different Systems Commercial packages routinely fail or give erroneous results when used to simulate stressed systems and understanding their underlying numerical algorithms is imperative to correctly interpret their results This edition paints a broad picture of the methods used in such packages but omits extraneous detail It includes new chapters that address function approximation and finite element analysis in addition to new sections on Generalized Minimal Residual GMRES methods Numerical differentiation Secant method Homotopy and continuation methods Power method for computing dominant eigenvalues Singular value decomposition and pseudoinverses Matrix pencil method This book will enable users to make better choices and improve their grasp of the situations in which methods may fail instilling greater confidence in the use of commercial packages

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Linear Synchronous Motors Jacek F. Gieras, Zbigniew J. Piech, Bronislaw Tomczuk, 2018-04-20 Considered to be the first book devoted to the subject **Linear Synchronous Motors Transportation and Automation Systems Second Edition** evaluates the state of the art demonstrating the technological innovations that are improving the design construction and performance of modern control systems This new edition not only illustrates the development of linear synchronous motor drives but it also discusses useful techniques for selecting a motor that will meet the specific requirements of linear electrical drives New Features for the Second Edition Several updated and expanded sections as well as two new chapters on FEM Even more numerical examples calculations and mathematical models Broadened target audience that includes researchers scientists students and more Evaluating trends and practical techniques for achieving optimal system performance the authors showcase ready to implement solutions for common

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Power System Fundamentals Salvador Acha Daza, 2016-09-30 This comprehensive resource presents the fundamentals of power systems including the theory practical steps and methods used in the design and management of energy systems Readers are provided with a uniquely comprehensive derivation of power electronics and will find practical advice based on actual occurrences in the field using real life scenarios This book offers a direct mathematical approach for models of the main components in an electrical power system This resource gives insight into power transformer modeling transmission line and cable modeling transmission line load ability power flows and real and reactive power and frequency control General fault studies in electrical power systems and state estimation in electrical power systems are also explored

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