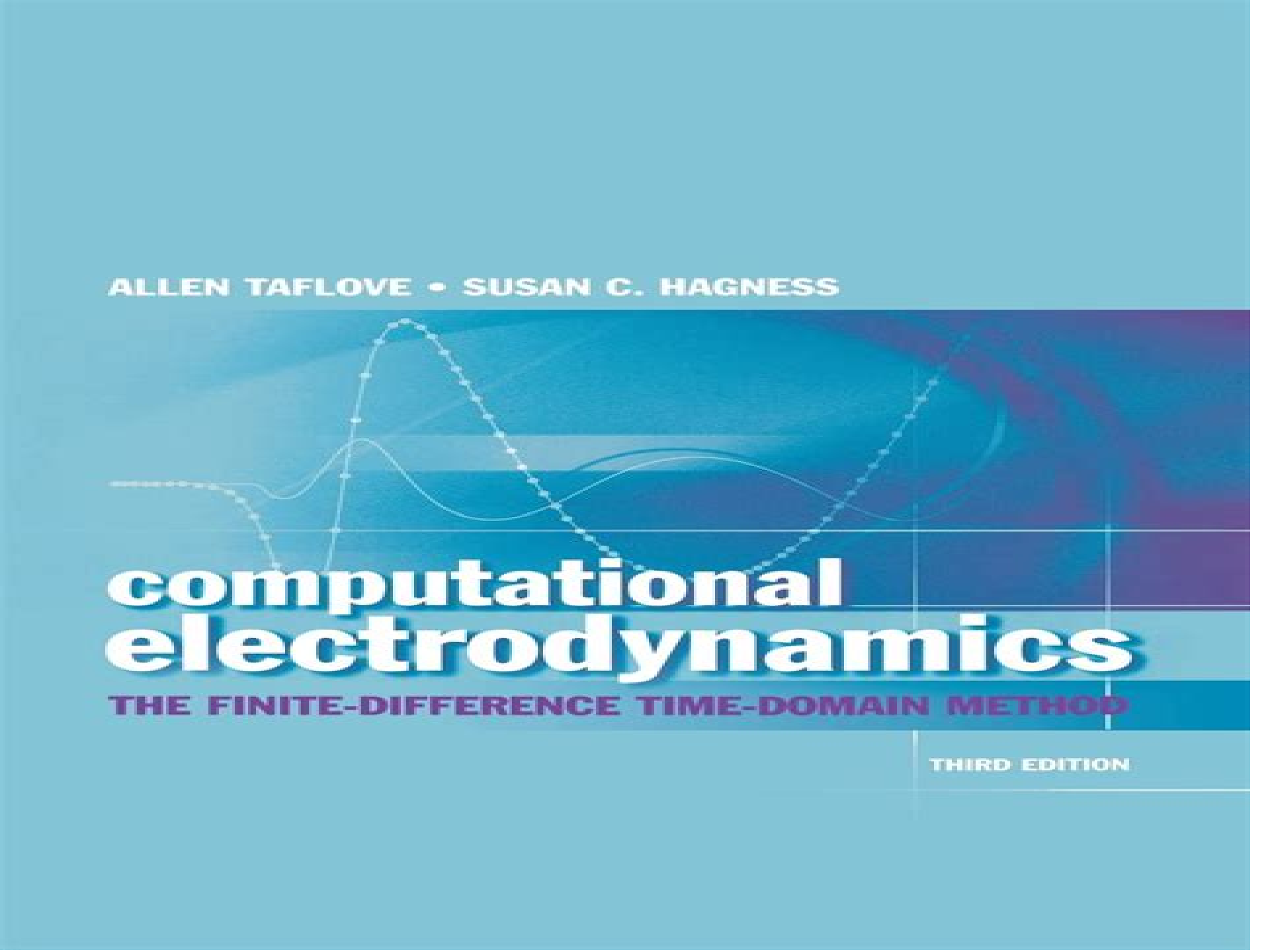


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computational electrodynamics

THE FINITE-DIFFERENCE TIME-DOMAIN METHOD

THIRD EDITION

Computational Electrodynamics The Finite Difference Time Domain Method Third Edition

**Wenhua Yu, Wenxing Li, Atef
Elsherbeni, Yahya Rahmat-Samii**



Computational Electrodynamics The Finite Difference Time Domain Method Third Edition:

Computational Electrodynamics Allen Taflove, Susan C. Hagness, 2005 This extensively revised and expanded third edition of the Artech House bestseller Computational Electrodynamics The Finite Difference Time Domain Method offers you the most up to date and definitive resource on this critical method for solving Maxwell's equations There has been considerable advancement in FDTD computational technology over the past few years and this new edition brings you the very latest details with four new invited chapters on advanced techniques for PSTD unconditional stability provably stable FDTD FETD hybrids and hardware acceleration Moreover you find many completely new sections throughout the book including major updates on convolutional PML ABCs dispersive nonlinear classical gain and quantum gain materials and micro nano and bio photonics

Advances in Computational Electrodynamics Allen Taflove, 1998 Finite Difference Time Domain FD TD modeling is arguably the most popular and powerful means available to perform detailed electromagnetic engineering analyses Edited by the pioneer and foremost authority on the subject here is the first book to assemble in one resource the latest techniques and results of the leading theoreticians and practitioners of FD TD computational electromagnetics modeling

Time Domain Methods in Electrodynamics Peter Russer, Uwe Siart, 2008-09-26 This book consists of contributions given in honor of Wolfgang J R Hoefer Space and time discretizing time domain methods for electromagnetic full wave simulation have emerged as key numerical methods in computational electromagnetics Time domain methods are versatile and can be applied to the solution of a wide range of electromagnetic field problems Computing the response of an electromagnetic structure to an impulsive excitation localized in space and time provides a comprehensive characterization of the electromagnetic properties of the structure in a wide frequency range The most important methods are the Finite Difference Time Domain FDTD and the Transmission Line Matrix TLM methods The contributions represent the state of the art in dealing with time domain methods in modern engineering electrodynamics for electromagnetic modeling in general the Transmission Line Matrix TLM method the application of network concepts to electromagnetic field modeling circuit and system applications and finally with broadband devices systems and measurement techniques

Advanced Computational Electromagnetic Methods Wenhua Yu, Wenxing Li, Atef Elsherbeni, Yahya Rahmat-Samii, 2015-03-01 This new resource covers the latest developments in computational electromagnetic methods with emphasis on cutting edge applications This book is designed to extend existing literature to the latest development in computational electromagnetic methods which are of interest to readers in both academic and industrial areas The topics include advanced techniques in MoM FEM and FDTD spectral domain method GPU and Phi hardware acceleration metamaterials frequency and time domain integral equations and statistics methods in bio electromagnetics

The Method of Moments in Electromagnetics, Second Edition Walton C. Gibson, 2014-07-10 Now Covers Dielectric Materials in Practical Electromagnetic Devices The Method of Moments in Electromagnetics Second Edition explains the solution of

electromagnetic integral equations via the method of moments MOM While the first edition exclusively focused on integral equations for conducting problems this edition extends the integral equation framework to treat objects having conducting as well as dielectric parts New to the Second Edition Expanded treatment of coupled surface integral equations for conducting and composite conducting dielectric objects including objects having multiple dielectric regions with interfaces and junctions Updated topics to reflect current technology More material on the calculation of near fields Reformatted equations and improved figures Providing a bridge between theory and software implementation the book incorporates sufficient background material and offers nuts and bolts implementation details It first derives a generalized set of surface integral equations that can be used to treat problems with conducting and dielectric regions Subsequent chapters solve these integral equations for progressively more difficult problems involving thin wires bodies of revolution and two and three dimensional bodies After reading this book students and researchers will be well equipped to understand more advanced MOM topics

Handbook of Nanoscience, Engineering, and Technology, Third Edition William A. Goddard III, Donald Brenner, Sergey Edward Lyshevski, Gerald J Iafrate, 2012-06-12 In his 1959 address There is Plenty of Room at the Bottom Richard P Feynman speculated about manipulating materials atom by atom and challenged the technical community to find ways of manipulating and controlling things on a small scale This visionary challenge has now become a reality with recent advances enabling atomistic level tailoring and control of materials Exemplifying Feynman s vision Handbook of Nanoscience Engineering and Technology Third Edition continues to explore innovative nanoscience engineering and technology areas Along with updating all chapters this third edition extends the coverage of emerging nano areas even further Two entirely new sections on energy and biology cover nanomaterials for energy storage devices photovoltaics DNA devices and assembly digital microfluidic lab on a chip and much more This edition also includes new chapters on nanomagnet logic quantum transport at the nanoscale terahertz emission from Bloch oscillator systems molecular logic electronic optics in graphene and electromagnetic metamaterials With contributions from top scientists and researchers from around the globe this color handbook presents a unified up to date account of the most promising technologies and developments in the nano field It sets the stage for the next revolution of nanoscale manufacturing where scalable technologies are used to manufacture large numbers of devices with complex functionalities

Silicon Photonics Design Lukas Chrostowski, Michael Hochberg, 2015-03-12 From design and simulation through to testing and fabrication this hands on introduction to silicon photonics engineering equips students with everything they need to begin creating foundry ready designs In depth discussion of real world issues and fabrication challenges ensures that students are fully equipped for careers in industry Step by step tutorials straightforward examples and illustrative source code fragments guide students through every aspect of the design process providing a practical framework for developing and refining key skills Offering industry ready expertise the text supports existing PDKs for CMOS UV lithography foundry services OpSIS ePIXfab imec LETI IME and CMC and the development of new kits for proprietary

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Mechanisms for enhancing the optical transmission through a single subwavelength hole Sol Carretero Palacios,2012

Handbook of Antennas for EMC, Second Edition Thereza M. MacNamara,John McAuley,2018-09-30 Finally a completely revised updated and expanded edition of the Artech House classic Handbook of Antennas for EMC The second edition features a wealth of brand new material including chapters on recent techniques standards and measurements This invaluable resource provides a thorough understanding of the practical aspects and underpinnings of antennas in EMC systems Professionals find summaries of important underlying mathematics without the heavy theoretical emphasis that characterizes much of the existing literature Professionals discover which antennas to choose for electromagnetic EM compatibility and compliance Moreover this authoritative book offers a solid understanding of the main characteristics of an antenna in a qualitative manner Essential reading for EMC engineers this volume provides the knowledge needed to determine the right antenna for specific applications and offers guidance in conducting EMC testing

Chemical Dynamics in Condensed Phases Abraham Nitzan,2024-07-12 This second edition of Chemical Dynamics in Condensed Phases provides a substantial modification and expansion of the first edition published in 2006 Nitzan offers a uniform approach to diverse problems encountered in the study of dynamical processes in condensed phase molecular systems The textbook focuses on three themes contextual background material in depth introduction of methodologies and analysis of several key applications These applications are among the most fundamental processes that underlie physical chemical and biological phenomena in complex systems The comprehensive advanced and self contained text provides the theoretical foundations for the processes affecting molecular dynamics in condensed phases that are encountered in the chemistry laboratory as well as in biology and material science research The mathematical tools and the physical concepts necessary to develop the chemical description are provided first followed by a detailed discussion of the fundamental chemical processes that underlie the chemical dynamics including quantum and classical aspects of molecular motion and the interaction of molecules with the radiation field and the surrounding thermal environment The last part of the book discusses several key processes accumulation and relaxation of molecular energy chemical reaction dynamics and the interplay of these dynamics with the dynamics and relaxation of the surrounding solvent electron transfer reactions electrode processes and molecular conduction junctions as well as molecular response to optical stimuli in solution and at dielectric interfaces Attention is given to combining the mathematical analysis with qualitative physical understanding of the different dynamical phenomena New to this edition is a new chapter 19 on the interaction of molecules with light at dielectric interfaces motivated by the surge of interest in molecular plasmonics and molecular cavity electrodynamics as well as a section relevant to this issue added to Chapter 10 Chapters on light matter

interaction and spectroscopy have been expanded to include subjects relevant to the foundation and practice of interfacial spectroscopy Sections have also been added to include discussion of noise and fluctuations observed in single molecule spectroscopy and in molecular junction transport

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