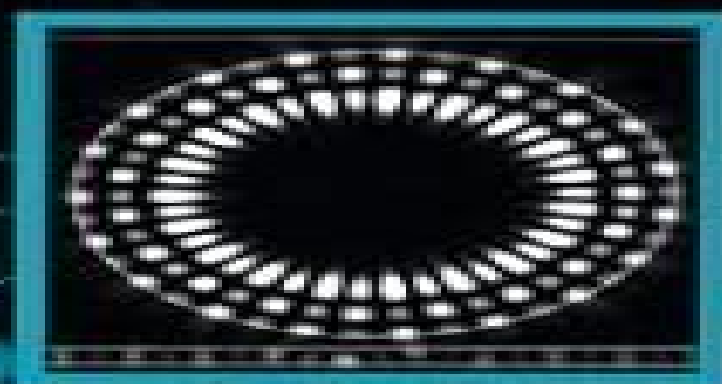


ADVANCES IN
**Computational
Electrodynamics**

The Finite-Difference Time-Domain Method



ALLEN TAFLOVE
EDITOR

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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 Art and Science of Ultrawideband Antennas, Second Edition](#) Hans G. Schantz, 2015-06-01 This comprehensive treatment of ultrawideband UWB antennas and time domain microwave engineering serves as an invaluable practical reference for anyone involved in antenna and RF design work This authoritative volume enables readers to select the proper UWB antennas for their applications design and analyze UWB antennas and integrate these antennas in an RF system By applying time domain thinking to problems of practical interest the reader will not only learn how to build and analyze antennas but also understand them at the most fundamental level This second edition is updated and expanded throughout providing readers with a history of antennas numerous new problem sets and worked examples along with new information on plotting time domain field lines time domain reflectometry matching techniques and more This book also addresses system issues like spectral control and antenna efficiency [Plasma Antennas, Second Edition](#) Theodore Anderson, 2020-11-30 This updated edition of an Artech House classic contains steering focusing and spreading of antenna beams using the physics of refraction of electromagnetic waves through a plasma Pulsing circuitry for ionizing plasma antennas with low power requirements are covered New and improved smart plasma antenna and applications to wi fi and the applications of plasma antennas are discussed Experimental work on plasma antenna noise and new progress on ruggedization and custom made plasma tubes are also presented This unique resource provides readers with a solid understanding of the efficient design and prototype development of plasma antennas to meet the challenge of reducing the power required to ionize the gas at various plasma densities Thorough coverage of the technical underpinnings of plasma antennas as well as important discussions on current markets and applications are discussed Additionally the book presents experimental work in this cutting edge area and reveals the latest developments in the field [Practical Microstrip and Printed Antenna Design](#) Anil Pandey, 2019-03-31 This comprehensive resource presents antenna fundamentals balanced with the design of printed antennas Over 70 antenna projects along with design dimensions design flows and antenna performance results are discussed including antennas for wireless communication 5G antennas and beamforming Examples of smartphone antennas MIMO antennas aerospace and satellite remote sensing array antennas automotive antennas and radar systems and many more printed antennas for various applications are also included These projects include design dimensions and parameters that incorporate the various

techniques used by industries and academia This book is intended to serve as a practical microstrip and printed antenna design guide to cover various real world applications All Antenna projects discussed in this book are designed analyzed and simulated using full wave electromagnetic solvers Based on several years of the author s research in antenna design and development for RF and microwave applications this book offers an in depth coverage of practical printed antenna design methodology for modern applications

Mobile Antenna Systems Handbook Kyōhei Fujimoto,2001 This is an extensively revised and updated new edition of the best selling Mobile Antenna Systems Handbook Comprehensive authoritative and practical it provides the information you need to understand the relationship between the elements involved in antenna systems design for mobile communications You get sound advice in choosing the appropriate antenna for any given requirement including antennas for ITS access to the latest modeling formulas for macro micro and pico cell propagation and guidance on the latest RF safety standards and measurement techniques

Electromagnetics and Antenna Technology Alan J. Fenn,2017-12-31 Written by a leading expert in the field this practical new resource presents the fundamentals of electromagnetics and antenna technology This book covers the design electromagnetic simulation fabrication and measurements for various types of antennas including impedance matching techniques and beamforming for ultrawideband dipoles monopoles loops vector sensors for direction finding HF curtain arrays 3D printed nonplanar patch antenna arrays waveguides for portable radar reflector antennas and other antennas It explores the essentials of phased array antennas and includes detailed derivations of important field equations and a detailed formulation of the method of moments This resource exhibits essential derivations of equations providing readers with a strong foundation of the underpinnings of electromagnetics and antennas It includes a complete chapter on the details of antenna and electromagnetic test and measurement This book explores details on 3D printed non planar circular patch array antenna technology and the design and analysis of a planar array fed axisymmetric gregorian reflector The lumped element impedance matched antennas are examined and include a look at an analytic impedance matching solution with a parallel LC network This book provides key insight into many aspects of antenna technology that have broad applications in radar and communications

Switched Parasitic Antennas for Cellular Communications David V. Thiel,Stephanie Smith,2002 Presenting information typically not found in other books the authors explore the numerous advantages of these antennas including high speed signal acquisition fixed input impedance low loss and small footprint Professionals find practical design examples strategies and optimization methods for designing economical switched parasitic antennas for applications such as direction finding and multibeam communications systems Cutting edge technologies and applications such as MEMs RF switches are also discussed

Microstrip Antenna Design Handbook Ramesh Garg,2001 Based on Bahl and Bhartia s popular 1980 classic Microstrip Antennas this all new book provides the detail antenna engineers and designers need to design any type of microstrip antenna After addressing essential microchip antenna theory the authors highlight current design and engineering practices

emphasizing the most pressing issues in this area including broadbanding circular polarization and active microstrip antennas in particular Special design challenges ranging from dual polarization high bandwidth and surface wave mitigation to choosing the proper substrate and shaping an antenna to achieve desired results are all covered *Electromagnetic Modeling of Composite Metallic and Dielectric Structures* Branko M. Kolundzija, Branko M. Kolundžija, A. R. Djordjević, 2002 Annotation This practical new book provides a much wider choice of analytical solutions to problems faced by antenna design engineers and researchers working in electromagnetic modeling Based on leading edge method of moments procedures the book presents new theories and techniques that help professionals optimize computer performance in numerical analysis of composite metallic and dielectric structures in the complex frequency domain For the first time comparisons and new combinations of techniques bring the elements of flexibility ease of implementation accuracy and efficiency into clear focus for all practitioners **Adaptive Array Measurements in Communications** M. A. Halim, 2001 One of the most damaging factors associated with any radio communication system is the effect of undesirable or interference signals This innovative new book gives you the knowledge you need to ensure your adaptive array system is protecting your communication links to the fullest It presents concepts and procedures that help you realize the maximum processing capabilities of a given system choose the right system for a specific application and identify precautionary steps to avoid adverse effects **Engineering Applications of the Modulated Scatterer Technique** Jean-Charles Bolomey, Fred E. Gardiol, 2001 Due to the spectacular growth of electronic systems and the steady demand for new services with increased functionality the development of more efficient measurement techniques has become of paramount importance This practical resource details the cutting edge Modulated Scatterer Technique which offers a low invasive and rapid method for testing and measuring systems and equipment used in a wide range of electronic engineering applications Extensively referenced with 125 illustrations and 100 equations **Dielectric Resonator Antenna Handbook** Aldo Petosa, 2007 Today more and more antenna engineers are viewing the Dielectric Resonator Antenna DRA as a preferable alternative to conventional low gain designs because of several attractive features including high radiation light weight small size and low profile This practical resource presents complete up to date details on DRAs in a single volume The book provides professionals with clear guidance on the mode of operation and radiation behavior of DRAs the main methods of excitation and the major advances in DRA technology This hands on reference equips engineers with simple equations and graphs that help them rapidly design DRAs without the need for complex analytical or numerical calculations Numerous design examples are included to give practitioners a sense of the versatility that DRAs afford *Radiowave Propagation and Antennas for Personal Communications* Kazimierz Siwiak, 1998 Gain a better understanding of the various propagation and antenna problems associated with personal communications with this updated and expanded version of the 1995 bestseller As with its first edition this new book quickly brings you up to speed on the personal communication radio channel and demystifies the complicated engineering details behind fixed site

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Applications of Neural Networks in Electromagnetics Christos Christodoulou, Michael Georgiopoulos, 2001 The high speed capabilities and learning abilities of neural networks can be applied to quickly solving numerous complex optimization problems in electromagnetics and this book shows you how Even if you have no background in neural networks this book helps you understand the basics of each main network architecture in use today including its strengths and limitations Moreover it gives you the knowledge you need to identify situations when the use of neural networks is the best problem solving option Advances in Computational Electrodynamics Allen Taflov, 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 American Book Publishing Record, 1998 **Iterative and Self-adaptive Finite-elements in**

Electromagnetic Modeling Magdalena Salazar-Palma, 1998 Ensure the accuracy of your results when applying the Finite Element Method FEM to electromagnetic and antenna problems with this self contained reference It provides you with a solid understanding of the method describes its key elements and numerical techniques and identifies various approaches to using the FEM in solving real world microwave field problems *Problem Solving in Electromagnetics, Microwave Circuit,*

and Antenna Design for Communications Engineering Karl F. Warnick, Peter Russer, 2006 Presenting a wide range of real world electromagnetics problems this one of a kind resource offers professionals and students complete step by step solutions to the most critical challenges relating to antenna and microwave circuit design The book serves as a practical standalone reference or as a perfect complement to the text *Electromagnetics Microwave Circuit and Antenna Design for Communications Engineering* Second Edition by Peter Russer Artech House 2006 Readers find in depth coverage of the concepts methods and theorems they need to understand to effectively tackle critical problems in the field Including numerous graphical illustrations and simplifying mathematical computations the book offers a deep and intuitive

understanding of the subject The British National Bibliography Arthur James Wells, 1998 Mathematical Reviews, 1999

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