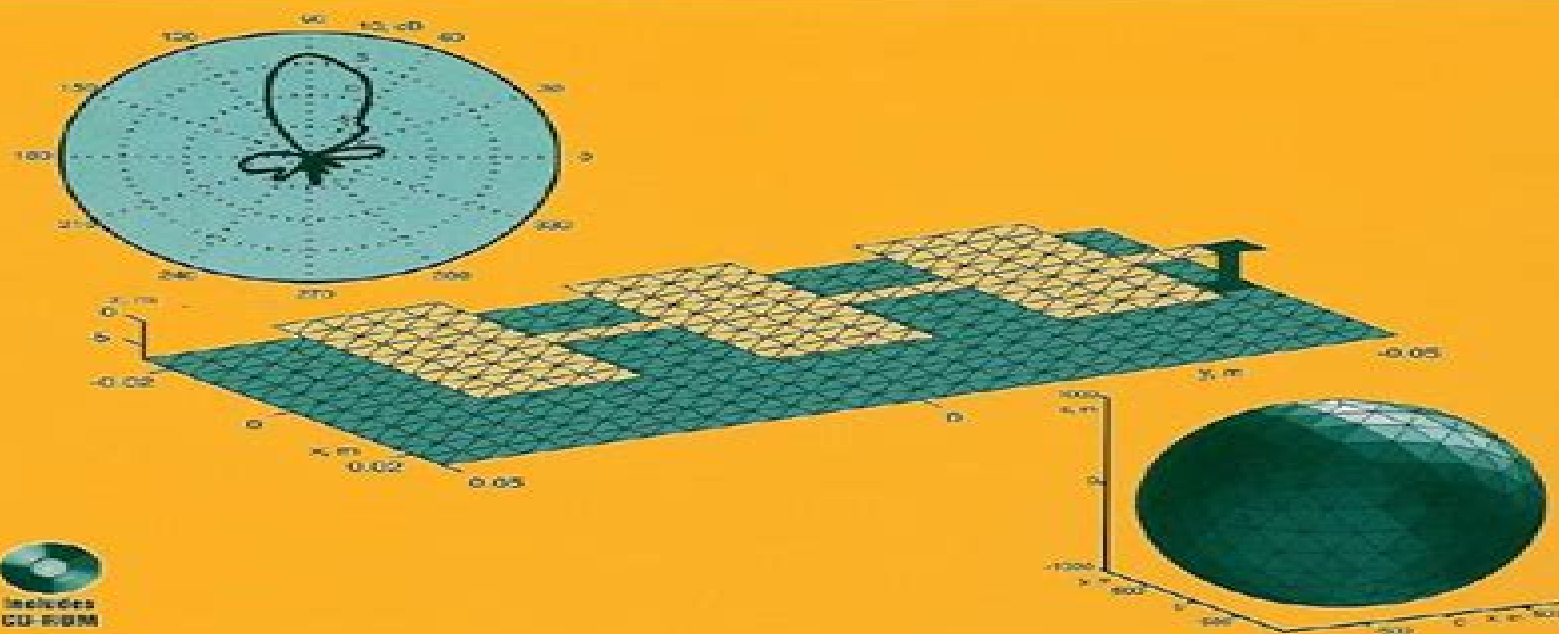


Antenna and EM Modeling with MATLAB[®]

Sergey N. Makarov



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Maria-Gabriella Di Benedetto



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Antenna Toolbox Sergey N. Makarov,Vishwanath Iyer,Shashank Kulkarni,Steven R. Best,2021-04-30 ANTENNA AND EM MODELING WITH MATLAB ANTENNA TOOLBOX™ An essential text to MATLAB Antenna Toolbox™ as accessible and easy to use full wave antenna modeling tool Antenna and EM Modeling with MATLAB Antenna Toolbox™ is a textbook on antennas intended for a one semester course The core philosophy is to introduce the key antenna concepts and follow them up with full wave modeling and optimization in the MATLAB Antenna Toolbox™ Such an approach will enable immediate testing of theoretical concepts by experimenting in software It also provides the direct path to research work The fundamental families of antennas dipoles loops patches and traveling wave antennas are discussed in detail together with the respective antenna arrays Using antenna parameters such as impedance reflection coefficient efficiency directivity and gain the reader is introduced to the different ways of understanding the performance of an antenna Written for senior undergraduates graduates as well as RF Antenna engineers Antenna and EM Modeling with Antenna Toolbox™ is a resource that Provides 14 video assisted laboratories on using Antenna Toolbox™ Includes approximately 50 real world examples in antenna and array design Offers approximately 200 homework problems Provides multiple ready to use standalone MATLAB scripts

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Makarov,Vishwanath Iyer,Shashank Kulkarni,Steven R. Best,2021-05-11 ANTENNA AND EM MODELING WITH MATLAB ANTENNA TOOLBOX An essential text to MATLAB Antenna Toolbox as accessible and easy to use full wave antenna modeling tool Antenna and EM Modeling with MATLAB Antenna Toolbox is a textbook on antennas intended for a one semester course The core philosophy is to introduce the key antenna concepts and follow them up with full wave modeling and optimization in the MATLAB Antenna Toolbox Such an approach will enable immediate testing of theoretical concepts by experimenting in software It also provides the direct path to research work The fundamental families of antennas dipoles loops patches and traveling wave antennas are discussed in detail together with the respective antenna arrays Using antenna parameters such as impedance reflection coefficient efficiency directivity and gain the reader is introduced to the different ways of understanding the performance of an antenna Written for senior undergraduates graduates as well as RF Antenna engineers Antenna and EM Modeling with Antenna Toolbox is a resource that Provides 14 video assisted laboratories on using Antenna Toolbox Includes approximately 50 real world examples in antenna and array design Offers approximately 200 homework problems Provides multiple ready to use standalone MATLAB scripts

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 *Antenna Theory and Design* Warren L. Stutzman, Gary A. Thiele, 2012-05-22 Stutzman's 3rd edition of *Antenna Theory and Design* provides a more pedagogical approach with a greater emphasis on computational methods New features include additional modern material to make the text more exciting and relevant to practicing engineers new chapters on systems low profile elements and base station antennas organizational changes to improve understanding more details to selected important topics such as microstrip antennas and arrays and expanded measurements topic EM Modeling of Antennas and RF Components for Wireless Communication Systems Frank Gustrau, Dirk Manteuffel, 2006-08-02 This book focuses on practical computational electrodynamics guiding the reader step by step through the modeling process from the initial what question must the model answer through the setting up of a computer model to post processing validation and optimization The book offers a realistic view of the capabilities and limits of current 3 D field simulators and how to apply this knowledge efficiently to EM analysis and design of RF applications in modern communication systems **Information Systems and Design** Victor Taratukhin, Mikhail Matveev, Jörg Becker, Yury Kupriyanov, 2022-01-27 This volume constitutes selected papers from the Second International Conference on Information Systems and Design ICID 2021 held as virtual event in September 2021 The 24 full papers and 4 short papers presented were thoroughly reviewed and selected from 51 submissions They are organized in topical sections on digital transformation of enterprises based on analysis and management tools practical focused research methodological support of analysis and management tools theoretical focused research young scientists research in the areas of enterprise digitalization Simulation-based Optimization Of Antenna Arrays Slawomir Koziel, Stanislav Ogurtsov, 2019-02-13 The book addresses surrogate assisted design of antenna arrays in particular how surrogate models both data driven and physics based can be utilized to expedite procedures such as parametric optimization design closure statistical analysis or fault detection Algorithms and design frameworks are illustrated using a large variety of examples including real world printed circuit antenna and antenna array structures This unique compendium contains introductory materials concerning numerical optimization both conventional gradient based and derivative free including metaheuristics and surrogate based as well as a considerable selection of customized procedures developed specifically to handle antenna array problems Recommendations concerning practical aspects of surrogate assisted multi objective antenna optimization are also given The methods

presented allow for cost efficient handling of antenna array design problems involving CPU intensive EM models in the context of design optimization and statistical analysis which will benefit both researchers designers and graduate students

Proceedings of the Eighth Asia International Symposium on Mechatronics Baoyan Duan, Kazunori Umeda, Chang-wan Kim, 2022-07-12 The book presents high quality papers from the Eighth Asia International Symposium on Mechatronics AISM 2021 It discusses the latest technological trends and advances in electromechanical coupling and environmental adaptability design of electronic equipment sensing and measurement mechatronics in manufacturing and automations energy harvesting storage robotics automation and control systems It includes papers based on original theoretical practical and experimental simulations development applications measurements and testing The applications and solutions discussed in the book provide excellent reference material for future product development

MIMO Signals and Systems Horst Bessai, 2005-01-11 Introduces the theory of multi port signals and systems with a focus on vector valued signal transmission Provides an introduction to the fundamentals implementation and applications of MIMO techniques An excellent guide for advanced students practicing engineers and researchers working on multi port electrical circuits RF networks and wireless communications

MIMO Alain Sibille, Claude Oestges, Alberto Zanella, 2010-12-03 Foreword from Arogyaswami Paulraj Professor Emeritus Stanford University USA The first book to show how MIMO principles can be implemented in today s mobile broadband networks and components Explains and solves some of the practical difficulties that arise in designing and implementing MIMO systems Both theory and implementation sections are written in the context of the most recent standards IEEE 802 11n WiFi IEEE 802 16 WIMAX 4G networks 3GPP 3GPP2 LTE

UWB Communication Systems Maria-Gabriella Di Benedetto, 2006 Ultrawideband UWB communication systems offer an unprecedented opportunity to impact the future communication world The enormous available bandwidth the wide scope of the data rate range trade off as well as the potential for very low cost operation leading to pervasive usage all present a unique opportunity for UWB systems to impact the way people and intelligent machines communicate and interact with their environment The aim of this book is to provide an overview of the state of the art of UWB systems from theory to applications Due to the rapid progress of multidisciplinary UWB research such an overview can only be achieved by combining the areas of expertise of several scientists in the field More than 30 leading UWB researchers and practitioners have contributed to this book covering the major topics relevant to UWB These topics include UWB signal processing UWB channel measurement and modeling higher layer protocol issues spatial aspects of UWB signaling UWB regulation and standardization implementation issues and UWB applications as well as positioning The book is targeted at advanced academic researchers wireless designers and graduate students wishing to greatly enhance their knowledge of all aspects of UWB systems

Advances in Information Technologies for Electromagnetics Luciano Tarricone, Alessandra Esposito, 2022-07-18 This book offers a broad panorama on recently achieved and potentially obtainable advances in

electromagnetics with innovative IT technologies Simple tutorial chapters introduce cutting edge technologies These include parallel and distributed computing object oriented technologies grid computing semantic grids agent based computing and service oriented architectures The book is a unique tool bridging the gap between IT and EM communities

Multi-objective Design Of Antennas Using Surrogate Models Slawomir Koziel, Adrian Bekasiewicz, 2016-11-18 This book addresses computationally efficient multi objective optimization of antenna structures using variable fidelity electromagnetic simulations surrogate modeling techniques and design space reduction methods Based on contemporary research it formulates multi objective design tasks highlights related challenges in the context of antenna design and discusses solution approaches Specific focus is on providing methodologies for handling computationally expensive simulation models of antenna structures in the sense of their multi objective optimization Also given is a summary of recent developments in antenna design optimization using variable fidelity simulation models Numerous examples of real world antenna design problems are provided along with discussions and recommendations for the readers interested in applying the considered methods in their design work Written with researchers and students in mind topics covered can also be applied across a broad spectrum of aeronautical mechanical electrical biomedical and civil engineering It is of particular interest to those dealing with optimization computationally expensive design tasks and simulation driven design

Antenna Engineering Handbook, Fourth Edition John Volakis, 2007-06-07 This edition contains 21 new chapters and a bonus eight page color insert and new material on specialty antennas such as wideband patch antennas antenna arrays smart antennas and more

MATLAB-based Finite Element Programming in Electromagnetic Modeling Özlem Özgün, Mustafa Kuzuoğlu, 2018-09-03 This book is a self contained programming oriented and learner centered book on finite element method FEM with special emphasis given to developing MATLAB programs for numerical modeling of electromagnetic boundary value problems It provides a deep understanding and intuition of FEM programming by means of step by step MATLAB programs with detailed descriptions and eventually enabling the readers to modify adapt and apply the provided programs and formulations to develop FEM codes for similar problems through various exercises It starts with simple one dimensional static and time harmonic problems and extends the developed theory to more complex two or three dimensional problems It supplies sufficient theoretical background on the topic and it thoroughly covers all phases pre processing main body and post processing in FEM FEM formulations are obtained for boundary value problems governed by a partial differential equation that is expressed in terms of a generic unknown function and then these formulations are specialized to various electromagnetic applications together with a post processing phase Since the method is mostly described in a general context readers from other disciplines can also use this book and easily adapt the provided codes to their engineering problems After forming a solid background on the fundamentals of FEM by means of canonical problems readers are guided to more advanced applications of FEM in electromagnetics through a survey chapter at the end of the book Offers

a self contained and easy to understand introduction to the theory and programming of finite element method Covers various applications in the field of static and time harmonic electromagnetics Includes one two and three dimensional finite element codes in MATLAB Enables readers to develop finite element programming skills through various MATLAB codes and exercises Promotes self directed learning skills and provides an effective instruction tool *Radar and Laser Cross Section Engineering* David C. Jenn, 2005 There have been many new developments in the ten years since the first edition of Radar and Laser Cross Section Engineering was published Stealth technology is now an important consideration in the design of all types of platforms The second edition includes a more extensive introduction that covers the important aspects of stealth technology and the unique tradeoffs involved in stealth design Prediction reduction and measurement of electromagnetic scattering from complex three dimensional targets remains the primary emphasis of this text developed by the author from courses taught at the Naval Postgraduate School New topics on computational methods like the finite element method and the finite integration technique are covered as well as new areas in the application of radar absorbing material and artificial metamaterials Matlab registered software homework problems and a solution manual available to instructors supplement the text Written as an instructional text this book is recommended for upper level undergraduate and graduate students introduction to the physics and mathematics of radar cross section in order to better understand the interdisciplinary aspects of stealth Matlab is a registered trademark of The MathWorks Inc **Jahangirnagar University Journal of Science**, 2010

Time-Domain Electromagnetic Reciprocity in Antenna Modeling Martin Stumpf, 2019-10-01 Describes applications of time domain EM reciprocity and the Cagniard deHoop technique to achieve solutions to fundamental antenna radiation and scattering problems This book offers an account of applications of the time domain electromagnetic TD EM reciprocity theorem for solving selected problems of antenna theory It focuses on the development of both TD numerical schemes and analytical methodologies suitable for analyzing TD EM wave fields associated with fundamental antenna topologies Time Domain Electromagnetic Reciprocity in Antenna Modeling begins by applying the reciprocity theorem to formulate a fundamentally new TD integral equation technique the Cagniard deHoop method of moments CdH MoM regarding the pulsed EM scattering and radiation from a thin wire antenna Subsequent chapters explore the use of TD EM reciprocity to evaluate the impact of a scatterer and a lumped load on the performance of wire antennas and propose a straightforward methodology for incorporating ohmic loss in the introduced solution methodology Other topics covered in the book include the pulsed EM field coupling to transmission lines formulation of the CdH MoM concerning planar antennas and more In addition the book is supplemented with simple MATLAB code implementations so that readers can test EM reciprocity by conducting numerical experiments In addition this text Applies the thin sheet boundary conditions to incorporate dielectric conductive and plasmonic properties of planar antennas Provides illustrative numerical examples that validates the described methodologies Presents analyzed problems at a fundamental level so that readers can fully grasp the underlying principles of solution

methodologies Includes appendices to supplement material in the book Time Domain Electromagnetic Reciprocity in Antenna Modeling is an excellent book for researchers and professors in EM modeling and for applied researchers in the industry

Ultra Wideband Antennas Giselle M. Galvan-Tejada, Marco Antonio Peyrot-Solis, Hildeberto Jardón Aguilar, 2017-12-19
Ultra Wideband Antennas Design Methodologies and Performance presents the current state of the art of ultra wideband UWB antennas from theory specific for these radiators to guidelines for the design of omnidirectional and directional UWB antennas Offering a comprehensive overview of the latest UWB antenna research and development this book Discusses the developed theory for UWB antennas in frequency and time domains Delivers a brief exposition of numerical methods for electromagnetics oriented to antennas Describes solid planar equivalence which allows flat structures to be implemented instead of volumetric antennas Examines the impedance matching phase linearity and radiation patterns as design objectives for omnidirectional and directional antennas Addresses the time domain signal analysis for UWB antennas from which the distortion phenomenon can be modeled Includes illustrative examples design equations CST MICROWAVE STUDIO simulations and MATLAB plot generations Compares the performance of different UWB antennas supplying useful insight into particular tendencies and unresolved problems Ultra Wideband Antennas Design Methodologies and Performance provides a valuable reference for the scientific community as UWB antennas have a variety of applications in body area networks radar imaging spectrum monitoring electronic warfare wireless sensor networks and more

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