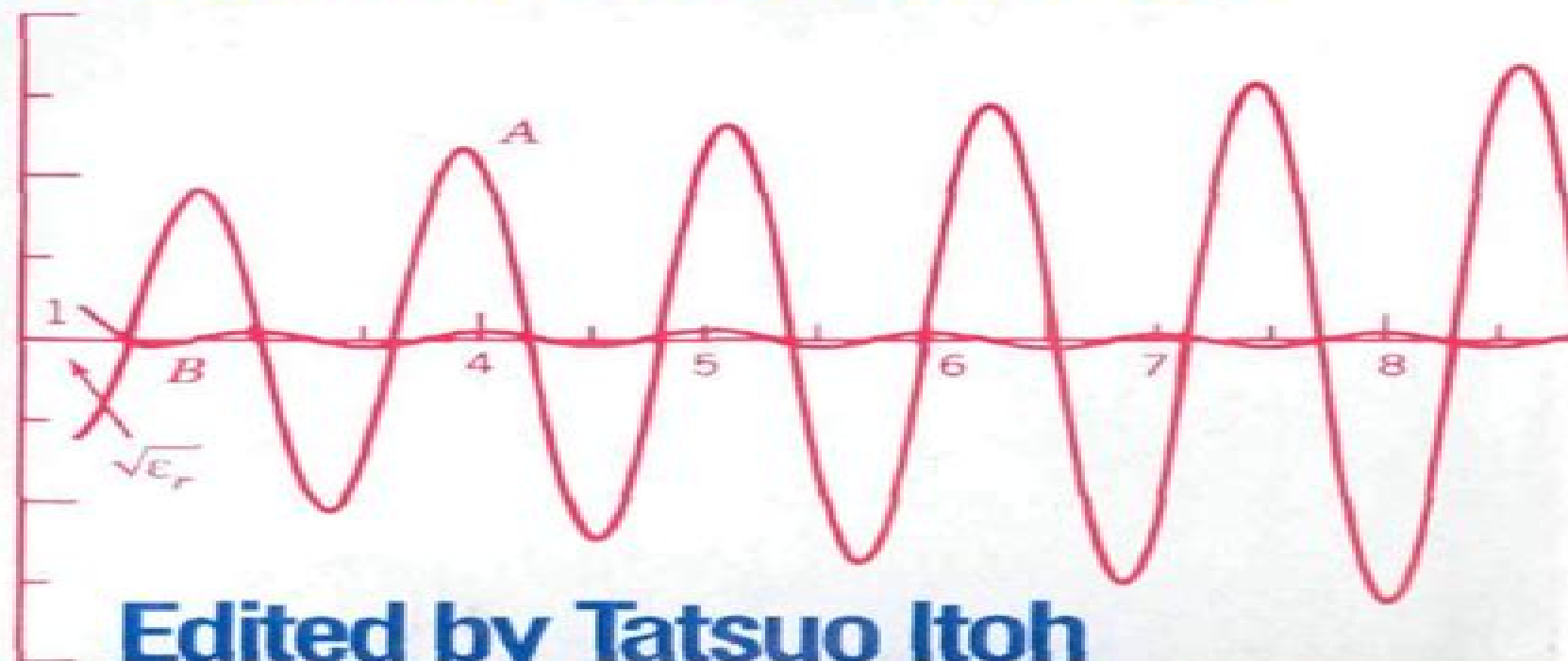


Numerical Techniques For Microwave And Millimeter-Wave Passive Structures



Edited by Tatsuo Itoh

Numerical Techniques For Microwave And Millimeter Wave Passive Structures

Tullio Rozzi, Marco Farina



Numerical Techniques For Microwave And Millimeter Wave Passive Structures:

Numerical Techniques for Microwave and Millimeter-Wave Passive Structures Tatsuo Itoh, 1989-05-10 The most comprehensive work on a number of practical numerical methods for analyzing passive structures in microwave and millimeter wave integrated circuits The introduction presents a brief comparison of the various numerical methods and how they may be integrated into computer aided design programs so the reader can make the appropriate choice Chapters following present step by step detailed descriptions of the methods each chapter written by the utmost authority on the subject Chapters provide illustrative examples and are written so that the reader can write his own computer program based on the numerical method described some chapters include sample computer programs *Electromagnetics, Microwave Circuit and Antenna Design for Communications Engineering* Peter Russer, 2003 If you are looking for a clear comprehensive overview of basic electromagnetics principles and applications to antenna and microwave circuit design for communications this authoritative book is your best choice Including concise explanations of all required mathematical concepts needed to fully comprehend the material the book is your complete resource for understanding electromagnetics in current emerging and future broadband communication systems as well as high speed analogue and digital electronic circuits and systems

Numerical Techniques in Electromagnetics with MATLAB Matthew N.O. Sadiku, 2018-10-08 Despite the dramatic growth in the availability of powerful computer resources the EM community lacks a comprehensive text on the computational techniques used to solve EM problems The first edition of *Numerical Techniques in Electromagnetics* filled that gap and became the reference of choice for thousands of engineers researchers and students This third edition of the bestselling text reflects the continuing increase in awareness and use of numerical techniques and incorporates advances and refinements made in recent years Most notable among these are the improvements made to the standard algorithm for the finite difference time domain FDTD method and treatment of absorbing boundary conditions in FDTD finite element and transmission line matrix methods The author also has added a chapter on the method of lines *Numerical Techniques in Electromagnetics with MATLAB* Third Edition continues to teach readers how to pose numerically analyze and solve EM problems to give them the ability to expand their problem solving skills using a variety of methods and to prepare them for research in electromagnetism Now the Third Edition goes even further toward providing a comprehensive resource that addresses all of the most useful computation methods for EM problems and includes MATLAB code instead of FORTRAN

Advanced Electromagnetic Analysis of Passive and Active Planar Structures Tullio Rozzi, Marco Farina, 1999 Rozzi and Farina electromagnetics U of Ancona Italy address the challenges involved in combining the fields of electromagnetics and complex circuit modeling that have arisen with the emergence of very high speed digital circuits Specifically they examine the analytical techniques encompassing the linear modeling of passive and active structures discussing passive and active planar waveguides on multilayer substrates with both 2D and 3D analysis Distributed by INSPEC Annotation copyrighted by

Book News Inc Portland OR Lumped Elements for RF and Microwave Circuits, Second Edition Inder J. Bahl, 2022-12-31 Fully updated and including entirely new chapters this Second Edition provides in depth coverage of the different types of RF and microwave circuit elements including inductors capacitors resistors transformers via holes airbridges and crossovers Featuring extensive formulas for lumped elements design trade offs and an updated and current list of references the book helps you understand the value and usefulness of lumped elements in the design of RF microwave and millimeter wave components and circuits You ll find a balanced treatment between standalone lumped elements and their circuits using MICs MMICs and RFICs technologies You ll also find detailed information on a broader range RFICs that was not available when the popular first edition was published The book captures in one consolidated volume the fundamentals equations modeling examples references and overall procedures to design test and produce microwave components that are indispensable in industry and academia today With its superb organization and expanded coverage of the subject this is a must have go to resource for practicing engineers and researchers in industry government and university and microwave engineers working in the antenna area Students will also find it a useful reference with its clear explanations many examples and practical modeling guidelines

Analysis of Electromagnetic Fields and Waves Reinhold Pregla, 2008-04-30 The Method of Lines MOL is a versatile approach to obtaining numerical solutions to partial differential equations PDEs as they appear in dynamic and static problems This method popular in science and engineering essentially reduces PDEs to a set of ordinary differential equations that can be integrated using standard numerical integration methods Its significant advantage is that the analysis algorithms follow the physical wave propagation and are therefore efficient This is because the fields on the discretisation lines are described by generalised transmission line GTL equations With this formulation we have a connection to the well known transmission line theory and resulting in an easy understanding The method of lines is a very accurate and powerful way to analyze electromagnetic waves enabling a full wave solution without the computational burden of pure finite element or finite difference methods With Analysis of Electromagnetic Fields and Waves Reinhold Pregla describes an important and powerful method for analyzing electromagnetic waves This book Describes the general analysis principles for electromagnetic fields Includes applications in microwave millimetre wave and optical frequency regions Unifies the analysis by introducing generalised transmission line GTL equations for all orthogonal coordinate systems and with materials of arbitrary anisotropy as a common start point Demonstrates a unique analysis principle with the numerical stable impedance admittance transformation and a physical adapted field transformation concept that is also useful for other modelling algorithms Includes chapters on Eigenmode calculations for various waveguides concatenations and junctions of arbitrary number of different waveguide sections in complex devices periodic structures e g Bragg gratings meander lines clystron resonators photonic crystals antennas e g circular and conformal Enables the reader to solve partial differential equations in other physical areas by using the described principles Features an accompanying website with program codes in Matlab for

special problems Analysis of Electromagnetic Fields and Waves will appeal to electromagnetic field practitioners in primary and applied research as well as postgraduate students in the areas of photonics micro and millimetre waves general electromagnetics e g microwave integrated circuits antennas integrated and fibre optics optoelectronics nanophotonics microstructures artificial materials Handbook of RF and Microwave Power Amplifiers John L. B. Walker, 2012 This is a one stop guide for circuit designers and system device engineers covering everything from CAD to reliability Principles and Techniques of Electromagnetic Compatibility Christos Christopoulos, 2022-07-14 This book provides a sound grasp of the fundamental concepts applications and practice of EMC Developments in recent years have resulted in further increases in electrical component density wider penetration of wireless technologies and a significant increase in complexity of electrical and electronic equipment New materials which can be customized to meet EMC needs have been introduced Considerable progress has been made in developing numerical tools for complete system EMC simulation EMC is now a central consideration in all industrial sectors Maintaining the holistic approach of the previous edition of Principles and Techniques of Electromagnetic Compatibility the Third Edition updates coverage of EMC to reflect recent important developments What is new in the Third Edition A comprehensive treatment of new materials meta and nano and their impact on EMC Numerical modelling of complex systems and complexity reduction methods Impact of wireless technologies and the Internet of Things IoT on EMC Testing in reverberation chambers and in the time domain A comprehensive treatment of the scope and development of stochastic models for EMC EMC issues encountered in automotive railway aerospace and marine applications Impact of EMC and Intentional EMI IEMI on infrastructure and risk assessment In addition to updating material new references examples and appendices were added to offer further support to readers interested in exploring further As in previous editions the emphasis is on building a sound theoretical framework and demonstrating how it can be turned to practical use in challenging applications The expectation is that this approach will serve EMC engineers through the inevitable future technological shifts and developments *Gratings: Theory and Numeric Applications*, *Field Solutions on Computers* Stanley Humphries, Jr., 2020-09-23 *Field Solutions on Computers* covers a broad range of practical applications involving electric and magnetic fields The text emphasizes finite element techniques to solve real world problems in research and industry After introducing numerical methods with a thorough treatment of electrostatics the book moves in a structured sequence to advanced topics These include magnetostatics with non linear materials permanent magnet devices RF heating eddy current analysis electromagnetic pulses microwave structures and wave scattering The mathematical derivations are supplemented with chapter exercises and comprehensive reviews of the underlying physics The book also covers essential supporting techniques such as mesh generation interpolation sparse matrix inversions and advanced plotting routines

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