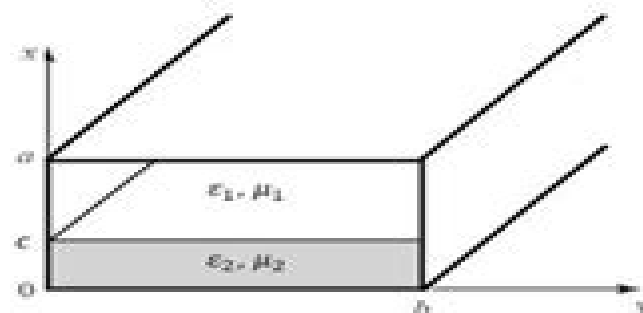## Question 5

Consider that the rectangular waveguide is partially filled with dielectric medium 2 from $x = 0$ to $x = c$ and partially filled with medium 1 from $x = c$ to $x = a$ ($a < b$ and $0 < c < a$).

(a) Show that any mode TE_z or TM_z will fail to satisfy the boundary conditions, except for the TE_{zm0} case. Solve for the TE_{zm0} mode and find the transcendental equation that governs the propagation constant given by:

$$\frac{\mu_2}{k_{2x}} \tan(k_{2x}c) + \frac{\mu_1}{k_{1x}} \tan(k_{1x}(a-c)) = 0 ,$$

where $k_{1x} = \sqrt{k_1^2 - \beta^2}$, and $k_{2x} = \sqrt{k_2^2 - \beta^2}$

(b) For the TE_{zm0} mode, what are the wave impedances in the two regions?

(c) Find the hybrid modes (having both E_z and H_z) by solving TM_{xmn} modes, which have electric Hertz potential in x-direction: $\mathbf{\Pi} = \hat{x}\, \psi(x, y)e^{i\beta z}$

(d) Letting $\varepsilon_1 = \varepsilon_2$ and $\mu_1 = \mu_2 = \mu$, show the cutoff frequency for the dominant TM_{xmn} mode is obtained by:

$$\omega_c = \frac{\pi}{b} \sqrt{\frac{\varepsilon_2(a-c) + \varepsilon_1 c}{\mu \varepsilon_1 \varepsilon_2 a}} .$$

Partially Filled Rectangular Waveguide

Andrew Eric Bogle

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[The Electrical Engineering Handbook](#) Wai Kai Chen,2004-11-16 The Electrical Engineer s Handbook is an invaluable reference source for all practicing electrical engineers and students Encompassing 79 chapters this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students This text will most likely be the engineer s first choice in looking for a solution extensive complete references to other sources are provided throughout No other book has the breadth and depth of coverage available here This is a must have for all practitioners and students The Electrical Engineer s Handbook provides the most up to date information in Circuits and Networks Electric Power Systems Electronics Computer Aided Design and Optimization VLSI Systems Signal Processing Digital Systems and Computer Engineering Digital Communication and Communication Networks Electromagnetics and Control and Systems About the Editor in Chief Wai Kai Chen is Professor and Head Emeritus of the Department of Electrical Engineering and Computer Science at the University of Illinois at Chicago He has extensive experience in education and industry and is very active professionally in the fields of circuits and systems He was Editor in Chief of the IEEE Transactions on Circuits and Systems Series I and II President of the IEEE Circuits and Systems Society and is the Founding Editor and Editor in Chief of the Journal of Circuits Systems and Computers He is the recipient of the Golden Jubilee Medal the Education Award and the Meritorious Service Award from the IEEE Circuits and Systems Society and the Third Millennium Medal from the IEEE Professor Chen is a fellow of the IEEE and the American Association for the Advancement of Science 77 chapters encompass the entire field of electrical engineering THOUSANDS of valuable figures tables formulas and definitions Extensive bibliographic references   [Electromagnetic Material Characterization Using a Partially Filled Rectangular Waveguide](#) Andrew Eric Bogle,2004   **Finite Element Method for Eigenvalue Problems in Electromagnetics** C. J. Reddy,1994

[Balanis' Advanced Engineering Electromagnetics](#) Constantine A. Balanis,2024-01-31 Balanis Advanced Engineering Electromagnetics The latest edition of the foundational guide to advanced electromagnetics Balanis third edition of Advanced Engineering Electromagnetics a global best seller for over 30 years covers the advanced knowledge engineers involved in electromagnetics need to know particularly as the topic relates to the fast moving continuously evolving and rapidly expanding field of wireless communications The immense interest in wireless communications and the expected increase in wireless communications systems projects antennas microwaves and wireless communications points to an increase in the number of engineers needed to specialize in this field Highlights of the 3rd Edition include A new chapter on Artificial Impedance Surfaces AIS contains material on current and advanced EM technologies including the exciting and fascinating topic of metasurfaces for Control and broadband RCS reduction using checkerboard designs Optimization of antenna fundamental parameters such as input impedance directivity realized gain amplitude radiation pattern Leaky wave antennas using 1 D and 2 D polarization diverse holographic high impedance metasurfaces for antenna radiation control and

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Advanced Electromagnetic Wave Propagation Methods Guillermo Gonzalez,2021-11-16 This textbook provides a solid foundation into many approaches that are used in the analysis of advanced electromagnetic wave propagation problems The techniques discussed are essential to obtain closed form solutions or asymptotic solutions and meet an existing need for instructors and students in electromagnetic theory The book covers various advanced mathematical methods used in the evaluation of the electromagnetic fields in rectangular cylindrical and spherical geometries The mathematics of special functions i e Bessel Hankel Airy Legendre Error etc are covered in depth including appropriate Appendices The author takes particular care to provide detailed explanations of auxiliary potentials Hertz s vectors Debye potentials as well as the use of Green functions the Watson transformation and the method of steepest descent in the solution of electromagnetic problems Overall Advanced Electromagnetic Wave Propagation Methods is a good source for the many skills required in obtaining closed form and asymptotic solution which in many instances cannot be obtained using computer codes of Maxwell s equations Thus it provides an excellent training for preparing graduate students in their research work This book is intended for a graduate course in electromagnetic theory for students in electrical engineering Students in physics and professionals will also find it appropriate and useful Provides a comprehensive and unified treatment of radiation and propagation problems Presents a detailed explanation in the use of Green functions the Watson transformation and the method of steepest descent as they apply to electromagnetic problems Demonstrates various advanced mathematical techniques used in the evaluation of the electromagnetic fields Details how to formulate and obtain a closed form solution or an asymptotic solution Includes appendices for Bessel Legendre Airy and Error functions **Electromagnetics** Edward J. Rothwell,Michael J. Cloud,2018-04-17 Providing an ideal transition from introductory to advanced concepts this book builds a foundation that allows electrical engineers to confidently proceed with the development of advanced EM studies research and applications New topics include quasistatics vector spherical wave functions and wave matrices Several application oriented sections covering guided waves and transmission lines particle dynamics shielding electromagnetic material characterization and antennas have also been added Mathematical appendices present helpful background information in the areas of Fourier transforms dyadics and boundary value problems Key Features Provides extensive end of chapter problems Includes numerous solved examples with detailed explanations and interpretations Introduces the reader to numerical electromagnetics and integral equations Each chapter offers an introduction to an important application of electromagnetics Emphasizes fundamentals while covering all of the important topics in electromagnetics Electromagnetic Fields and

<u>Waves</u> Eugene I. Nefyodov,Sergey M. Smolskiy,2018-08-27 This textbook is intended for a course in electromagnetism for upper undergraduate and graduate students The main concepts and laws of classical macroscopic electrodynamics and initial information about generalized laws of modern electromagnetics are discussed explaining some paradoxes of the modern theory The reader then gets acquainted with electrodynamics methods of field analysis on the basis of wave equation solution Emission physics are considered using an example of the Huygens Fresnel Kirchhoff canonic principle The representation about strict electrodynamics task statement on the base of Maxwell equations boundary conditions emission conditions and the condition on the edge is given Different classes of approximate boundary conditions are presented which essentially simplify understanding of process physics The canonic Fresnel functions are given and their generalization on the case of anisotropic impedance The free waves in closed waveguides and in strip slotted and edge dielectric transmission lines are described A large number of Mathcad programs for illustration of field patterns and its properties in different guiding structures are provided The material is organized for self study as well as classroom use *Automated Solution of Differential Equations by the Finite Element Method* Anders Logg,Kent-Andre Mardal,Garth Wells,2012-02-24 This book is a tutorial written by researchers and developers behind the FEniCS Project and explores an advanced expressive approach to the development of mathematical software The presentation spans mathematical background software design and the use of FEniCS in applications Theoretical aspects are complemented with computer code which is available as free open source software The book begins with a special introductory tutorial for beginners Following are chapters in Part I addressing fundamental aspects of the approach to automating the creation of finite element solvers Chapters in Part II address the design and implementation of the FEnicS software Chapters in Part III present the application of FEniCS to a wide range of applications including fluid flow solid mechanics electromagnetics and geophysics <u>Advanced Engineering Electromagnetics</u> Constantine A. Balanis,2012-01-24 Balanis second edition of Advanced Engineering Electromagnetics a global best seller for over 20 years covers the advanced knowledge engineers involved in electromagnetic need to know particularly as the topic relates to the fast moving continually evolving and rapidly expanding field of wireless communications The immense interest in wireless communications and the expected increase in wireless communications systems projects antenna microwave and wireless communication points to an increase in the number of engineers needed to specialize in this field In addition the Instructor Book Companion Site contains a rich collection of multimedia resources for use with this text Resources include Ready made lecture notes in Power Point format for all the chapters Forty nine MATLAB programs to compute plot and animate some of the wave phenomena Nearly 600 end of chapter problems that s an average of 40 problems per chapter 200 new problems 50% more than in the first edition A thoroughly updated Solutions Manual 2500 slides for Instructors are included *Advanced Electromagnetics and Scattering Theory* Kasra Barkeshli,2014-10-25 This book present the lecture notes used in two courses that the late Professor Kasra Barkeshli had offered at Sharif

University of Technology namely Advanced Electromagnetics and Scattering Theory The prerequisite for the sequence is vector calculus and electromagnetic fields and waves Some familiarity with Green s functions and integral equations is desirable but not necessary The book provides a brief but concise introduction to classical topics in the field It is divided into three parts including annexes Part I covers principle of electromagnetic theory The discussion starts with a review of the Maxwell s equations in differential and integral forms and basic boundary conditions The solution of inhomogeneous wave equation and various field representations including Lorentz s potential functions and the Green s function method are discussed next The solution of Helmholtz equation and wave harmonics follow Next the book presents plane wave propagation in dielectric and lossy media and various wave velocities This part concludes with a general discussion of planar and circular waveguides Part II presents basic concepts of electromagnetic scattering theory After a brief discussion of radar equation and scattering cross section the author reviews the canonical problems in scattering These include the cylinder the wedge and the sphere The edge condition for the electromagnetic fields in the vicinity of geometric discontinuities are discussed The author also presents the low frequency Rayleigh and Born approximations The integral equation method for the formulation of scattering problems is presented next followed by an introduction to scattering from periodic structures Part III is devoted to numerical methods It begins with finite difference methods to solve elliptic equations and introduces the finite difference time domain method for the solution of hyperbolic and parabolic equations Next the part turns to the method of moments for the solution of integral equations This part ends with a short introduction to the finite element method

Microwave Engineering David M. Pozar,2021 The 4th edition of this classic text provides a thorough coverage of RF and microwave engineering concepts starting from fundamental principles of electrical engineering with applications to microwave circuits and devices of practical importance Coverage includes microwave network analysis impedance matching directional couplers and hybrids microwave filters ferrite devices noise nonlinear effects and the design of microwave oscillators amplifiers and mixers Material on microwave and RF systems includes wireless communications radar radiometry and radiation hazards A large number of examples and end of chapter problems test the reader s understanding of the material The 4th edition includes new and updated material on systems noise active devices and circuits power waves transients RF CMOS circuits and more   Theory of Electrostatic Waves in Hyperbolic Metamaterials Afshin Moradi,2023-12-13 This book covers electrostatic properties of hyperbolic metamaterials HMMs a fascinating class of metamaterials which combine dielectric and metal components Due to the hyperbolic topology of the isofrequency surface in HMMs the so called resonance cone direction exists and as a result propagation of quasi electrostatic waves or more commonly electrostatic waves close to the resonance cone with large wave vectors is possible However the investigation of electrostatic wave properties in HMMs is largely overlooked in most works on the subject and the purpose of this monograph is to fill this gap This book gives a thorough theoretical treatment of propagation reflection and refraction of electrostatic

waves in HMMs of various dimensions and geometries It will be of interest to students and researchers who work on electrical and optical properties of metamaterials **Advances in Microwaves** Leo Young,2013-10-22 Advances in Microwaves Volume 1 is a collection of papers dealing with the design and fabrication of a two mile accelerator optical waveguides and directional couplers One paper describes the design and fabrication of the disk loaded wave guide which serves as the accelerating structure of the Stanford two mile accelerator Another paper discusses the basic principles of guided propagation particularly the properties of the confocal lens systems or the beam guide variants One paper describes the main types of directional couplers namely waveguide directional couplers TEM Mode directional couplers to help scientists and researchers determine a particular design Some papers discuss singular integral equations to solve waveguide problems the application of Lie algebraic theory to microwave networks and partially filled waveguides and surface waveguides of rectangular cross section One paper explains the application of the singular integral equation method to rectangular waveguides including the infinite parallel plate configuration Another paper cites the exponentially tapered transmission line as an example to show the application of Lie algebras in solving problems related to the microwave field The collection is suitable for people in the field of applied mathematics nuclear physics quantum mechanics and applied physics **Multiresolution Frequency Domain Technique for Electromagnetics** Mesut Gökten,Atef Elsherbeni,Ercument Arvas,2022-06-01 In this book a general frequency domain numerical method similar to the finite difference frequency domain FDFD technique is presented The proposed method called the multiresolution frequency domain MRFD technique is based on orthogonal Battle Lemarie and biorthogonal Cohen Daubechies Feauveau CDF wavelets The objective of developing this new technique is to achieve a frequency domain scheme which exhibits improved computational efficiency figures compared to the traditional FDFD method reduced memory and simulation time requirements while retaining numerical accuracy The newly introduced MRFD scheme is successfully applied to the analysis of a number of electromagnetic problems such as computation of resonance frequencies of one and three dimensional resonators analysis of propagation characteristics of general guided wave structures and electromagnetic scattering from two dimensional dielectric objects The efficiency characteristics of MRFD techniques based on different wavelets are compared to each other and that of the FDFD method Results indicate that the MRFD techniques provide substantial savings in terms of execution time and memory requirements compared to the traditional FDFD method Table of Contents Introduction Basics of the Finite Difference Method and Multiresolution Analysis Formulation of the Multiresolution Frequency Domain Schemes Application of MRFD Formulation to Closed Space Structures Application of MRFD Formulation to Open Space Structures A Multiresolution Frequency Domain Formulation for Inhomogeneous Media Conclusion **IEEE Transactions on Microwave Theory and Techniques** ,1953 **The Finite Element Method in Electromagnetics** Jian-Ming Jin,2015-02-18 A new edition of the leading textbook on the finite element method incorporating major advancements and

further applications in the field of electromagnetics The finite element method FEM is a powerful simulation technique used to solve boundary value problems in a variety of engineering circumstances It has been widely used for analysis of electromagnetic fields in antennas radar scattering RF and microwave engineering high speed high frequency circuits wireless communication electromagnetic compatibility photonics remote sensing biomedical engineering and space exploration The Finite Element Method in Electromagnetics Third Edition explains the method s processes and techniques in careful meticulous prose and covers not only essential finite element method theory but also its latest developments and applications giving engineers a methodical way to quickly master this very powerful numerical technique for solving practical often complicated electromagnetic problems Featuring over thirty percent new material the third edition of this essential and comprehensive text now includes A wider range of applications including antennas phased arrays electric machines high frequency circuits and crystal photonics The finite element analysis of wave propagation scattering and radiation in periodic structures The time domain finite element method for analysis of wideband antennas and transient electromagnetic phenomena Novel domain decomposition techniques for parallel computation and efficient simulation of large scale problems such as phased array antennas and photonic crystals Along with a great many examples The Finite Element Method in Electromagnetics is an ideal book for engineering students as well as for professionals in the field **Optical Waveguide Theory** Yury Shestopalov,Yury Smirnov,Eugene Smolkin,2022-03-26 This book addresses the most advanced to date mathematical approach and numerical methods in electromagnetic field theory and wave propagation It presents the application of developed methods and techniques to the analysis of waves in various guiding structures shielded and open metal dielectric waveguides of arbitrary cross section planar and circular waveguides filled with inhomogeneous dielectrics metamaterials chiral media anisotropic media and layered media with absorption It also looks into spectral properties of wave propagation for the waveguide families being considered and the relevant mathematical techniques such as spectral theory of non self adjoint operator valued functions are described including rigorous proofs of the existence of various types of waves Further numerical methods constructed on the basis of the presented mathematical approach and the results of numerical modeling for various structures are also described in depth The book is beneficial to a broad spectrum of readers ranging from pure and applied mathematicians in electromagnetic field theory to researchers and engineers who are familiar with mathematics Further it is also useful as a supplementary text for upper level undergraduate students interested in learning more advanced topics of mathematical methods in electromagnetics Temperature- and Time-Dependent Dielectric Measurements and Modelling on Curing of Polymer Composites Prastiyanto, Dhidik,2016-03-15 In this book a test set for dielectric measurements at 2 45 GHz during curing of polymer composites is developed Fast reconstruction is solved using a neural network algorithm Modeling of the curing process at 2 45 GHz using both dielectric constant and dielectric loss factor results in more accurate model compared to low frequency modelling that only uses the loss factor Effect of

various hardeners and different amount of filler is investigated   *Theory and Computation of Electromagnetic Fields* Jian-Ming Jin,2015-08-10 Reviews the fundamental concepts behind the theory and computation of electromagnetic fields The book is divided in two parts The first part covers both fundamental theories such as vector analysis Maxwell s equations boundary condition and transmission line theory and advanced topics such as wave transformation addition theorems and fields in layered media in order to benefit students at all levels The second part of the book covers the major computational methods for numerical analysis of electromagnetic fields for engineering applications These methods include the three fundamental approaches for numerical analysis of electromagnetic fields the finite difference method the finite difference time domain method in particular the finite element method and the integral equation based moment method The second part also examines fast algorithms for solving integral equations and hybrid techniques that combine different numerical methods to seek more efficient solutions of complicated electromagnetic problems Theory and Computation of Electromagnetic Fields Second Edition Provides the foundation necessary for graduate students to learn and understand more advanced topics Discusses electromagnetic analysis in rectangular cylindrical and spherical coordinates Covers computational electromagnetics in both frequency and time domains Includes new and updated homework problems and examples Theory and Computation of Electromagnetic Fields Second Edition is written for advanced undergraduate and graduate level electrical engineering students This book can also be used as a reference for professional engineers interested in learning about analysis and computation skills   Phased Array Antennas with Optimized Element Patterns Sergei P. Skobelev,2011 This authoritative resource provides you with a detailed description of ideal array element characteristics that help you estimate the quality of development of real world phased array antennas You find several approaches to optimum phased array design allowing you to provide specified array gain in a specific region of scan using a minimum number of expensive controlled devices Moreover this practical book presents important numerical methods that you can use to model and optimize phased array structure to obtain the best array characteristics that the chosen structure can provide From arrays with beam forming networks arrays of coupled dual mode waveguides and arrays with reactively loaded radiators to waveguide arrays with protruding dielectric elements and arrays with strip disk and wire structures this comprehensive reference explains a wide range of essential topics to help you with work in this challenging area The book is supported with over 165 illustrations and more than 566 equations

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