



ELECTROMAGNETIC WAVES SERIES 43

Open electromagnetic waveguides

**T. Rozzi and
M. Mongiardo**

The Institution of Electrical Engineers

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Anand K. Verma



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Open Electromagnetic Waveguides Tullio Rozzi, Mauro Mongiardo, 1997 A pioneer work addressing the twin aspects of waveguiding and radiation by means of a single mathematical formalism Researchers Rozz and Mongiardo frontier concepts and theoretical methods for discontinuities in open hybrid mode 3D structures using real problems taken from the fields of microwave millimetric wave and integrated optics The examples they use to demonstrate this unifying concept vis a vis a fundamental modal approach for both guiding and radiation include slotted waveguides coupled and truncated ribguides and step discontinuities in slab waveguides Annotation copyrighted by Book News Inc Portland OR **Optical Waveguiding**

and Applied Photonics Aimé Lay-Ekuakille, 2014-01-18 Optoelectronics technology based on applications light such as micro nano quantum electronics photonic devices laser for measurements and detection has become an important field of research Many applications and physical problems concerning optoelectronics are analyzed in Optical Waveguiding and Applied Photonics The book is organized in order to explain how to implement innovative sensors starting from basic physical principles Applications such as cavity resonance filtering tactile sensors robotic sensor oil spill detection small antennas and experimental setups using lasers are analyzed Innovative materials such as nanocomposites are characterized designed and applied in order to provide new ideas about detection principles As with many electric circuitries light applications and architectures suffer from noising due to physical and transmission connections The book illustrates some examples for practical issues The theory and the nanotechnology facilities provide important tools for researchers working with sensing applications **Electromagnetic Waveguides** S. F. Mahmoud, 1991 A textbook for an introductory graduate course in

electromagnetic waveguides covering such types as low attenuation dielectric and the natural wave guides in the ionosphere and in mine tunnels Annotation copyrighted by Book News Inc Portland OR Electromagnetic Radiation, Scattering, and Diffraction Prabhakar H. Pathak, Robert J. Burkholder, 2021-12-07 Electromagnetic Radiation Scattering and Diffraction Discover a graduate level text for students specializing in electromagnetic wave radiation scattering and diffraction for engineering applications In Electromagnetic Radiation Scattering and Diffraction distinguished authors Drs Prabhakar H Pathak and Robert J Burkholder deliver a thorough exploration of the behavior of electromagnetic fields in radiation scattering and guided wave environments The book tackles its subject from first principles and includes coverage of low and high frequencies It stresses physical interpretations of the electromagnetic wave phenomena along with their underlying mathematics The authors emphasize fundamental principles and provide numerous examples to illustrate the concepts contained within Students with a limited undergraduate electromagnetic background will rapidly and systematically advance their understanding of electromagnetic wave theory until they can complete useful and important graduate level work on electromagnetic wave problems Electromagnetic Radiation Scattering and Diffraction also serves as a practical companion for students trying to simulate problems with commercial EM software and trying to better interpret their results Readers

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Modern Antenna Handbook Constantine A. Balanis, 2011-09-20 The most up to date comprehensive treatment of classical and modern antennas and their related technologies Modern Antenna Handbook represents the most current and complete thinking in the field of antennas The handbook is edited by one of the most recognizable prominent and prolific authors educators and researchers on antennas and electromagnetics Each chapter is authored by one or more leading international experts and includes cover age of current and future antenna related technology The information is of a practical nature and is intended to be useful for researchers as well as practicing engineers From the fundamental parameters of antennas to antennas for mobile wireless communications and medical applications Modern Antenna Handbook covers everything professional engineers consultants researchers and students need to know about the recent developments and the future direction of this fast paced field In addition to antenna topics the handbook also covers modern technologies such as metamaterials microelectromechanical systems MEMS frequency selective surfaces FSS and radar cross sections RCS and their applications to antennas while five chapters are devoted to advanced numerical computational methods targeted primarily for the analysis and design of antennas

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

Microoptics Karl-Heinz Brenner,Jürgen Jahns,2013-03-20 Microoptics is still an emerging field with a huge potential for a large number of applications This monograph brings together the most recent developments in order to give a broad overview

Advances in Terahertz Source Technologies Gun-Sik Park,Masahiko Tani,Jae-Sung Rieh,Sang Yoon Park,2024-04-16 During the past several decades tremendous progress has been made in terahertz THz science and technology There is a continuing need to have terahertz waves ready for practical applications Terahertz photonic and electronic devices are being readied to be employed in application systems such as communication links satellite communications radar surveillance hard soft material heating biomedical treatment and biomedical diagnostics This book focuses on the advances in terahertz source technologies both from photonics and electronics solid state and vacuum state points of view Written in a noncomplicated language the book will be useful for a broad spectrum of readers including advanced undergraduate and graduate level students in electronics and photonics researchers in various disciplines in physics chemistry biology astronomy and electrical engineering system engineers in various industrial sectors general readers and those who are interested in the interaction between electromagnetic waves and matters and in the effects of electromagnetic waves on matters

Progress in Computational Physics (PiCP): Volume 1 Matthias Ehrhardt,2010 Progress in Computational Physics is a new e book series devoted to recent research trends in computational physics It contains chapters contributed by outstanding experts of modeling of physical problems The series focuses on interdisciplinary computat

IEICE Transactions on Electronics ,2005

Microstrip Lines and Slotlines, Third Edition Ramesh Garg,Inder Bahl,Maurizio Bozzi,2013-05-01 Since the second edition of this book was published in 1996 planar transmission line technology has progressed considerably due to developments in ultrawideband UWB communications imaging and RFID applications In addition the simultaneous demands for compactness of wireless electronic devices while meeting improved performance requirements necessitates increased use of computer aided design simulation and analysis by microwave engineers This book is written to help engineers successfully meet these challenges Details include the development of governing equations basis functions Green s function and typical results More than 1200 equations supplement the text Special attention is given to the use of simulation software in the design of complex devices and understanding the connection between data collected from simulation software and the actual design process The book is primarily intended for microwave design engineers and R D specialists who need to employ planar transmission lines in designing distributed circuits and antenna systems for a wide range of wireless applications Advanced undergraduate

and graduate students in electronics and telecommunication engineering will also welcome this addition to your library

Handbook of Optoelectronic Device Modeling and Simulation Joachim Piprek, 2017-10-10 Optoelectronic devices are now ubiquitous in our daily lives from light emitting diodes LEDs in many household appliances to solar cells for energy This handbook shows how we can probe the underlying and highly complex physical processes using modern mathematical models and numerical simulation for optoelectronic device design analysis and performance optimization It reflects the wide availability of powerful computers and advanced commercial software which have opened the door for non specialists to perform sophisticated modeling and simulation tasks The chapters comprise the know how of more than a hundred experts from all over the world The handbook is an ideal starting point for beginners but also gives experienced researchers the opportunity to renew and broaden their knowledge in this expanding field

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

Modern Theory of Gratings Yuriy K. Sirenko, Staffan Ström, 2010-07-23 The advances in the theory of diffraction gratings and the applications of these results certainly determine the progress in several areas of applied science and engineering The polarization converters phase shifters and filters quantum and solid state oscillators open quasi optical dispersive resonators and power compressors slow wave structures and patter forming systems accelerators and spectrometer that is still far from being a complete list of devices exploiting the amazing ability of periodic structures to perform controlled frequency spatial and polarization selection of signals Diffraction gratings used to be and still are one of

the most popular objects of analysis in electromagnetic theory The further development of the theory of diffraction gratings in spite of considerable achievements is still very important presently The requirements of applied optics and microwave engineering present the theory of diffraction gratings with many new problems which force us to search for new methods and tools for their resolution Just in such way there appeared recently new fields connected with the analysis synthesis and definition of equivalent parameters of artificial materials layers and coatings having periodic structure and possessing features which can be found in natural materials only in extraordinary or exceptional situations In this book the authors present results of the electromagnetic theory of diffraction gratings that may constitute the base of further development of this theory which can meet the challenges provided by the most recent requirements of fundamental and applied science The following issues will be considered in the book Authentic methods of analytical regularization that perfectly match the requirements of analysis of resonant scattering of electromagnetic waves by gratings Spectral theory of gratings providing a reliable foundation for the analysis of spatial frequency transformations of electromagnetic fields occurring in open periodic resonators and waveguides Parametric Fourier method and C method that are oriented towards the efficient numerical analysis of transformation properties of fields in the case of arbitrary profile periodic boundary between dielectric media and multilayered conformal arrays Rigorous methods for analysis of transient processes and time spatial transformations of electromagnetic waves in resonant situations based on development and incorporation in standard numerical routines of FDTD of so called explicit absorbing boundary conditions New approaches to the solution of homogenization problems the key problem arising in construction of metamaterials and meta surfaces New physical results about the resonance scattering of pulse and monochromatic waves by periodic structures including structures with chiral or left handed materials Methods and the results of the solutions of several actual applied problems of analysis and synthesis of pattern creating gratings power compressors resonance radiators of high capacity short radio pulses open electromagnetic structures for the systems of resonant quasi optics and absorbing coatings

Photonics, Plasmonics and Information Optics Arpan Deyasi, Pampa Debnath, Asit Kumar Datta, Siddhartha Bhattacharyya, 2021-04-18 This edited volume covers technological developments and current research trends in the field of photonics plasmonics and optics focusing on photonic crystals semiconductor optical devices optical communications and optical sensors with an emphasis on practical sectors It broadly contains the latest research domains contributed by experts and researchers in their respective fields with a major focus on the basic physics Works in the area of electromagnetic bandgap structures EBG and metasurfaces are included for applications in different aspects of communications systems Further it covers research phenomena of microwave photonic devices to develop miniaturized high frequency devices FEATURES Reviews nonlinear optical phenomena related with materials and crystals and plasmonic effects on device fabrications Contains a detailed analysis on photonic crystals with their applications in making all optical passive components Focusses on nonlinear optics more precisely on crystals and materials and

computational aspects on evaluating their properties from Maxwell's equations Presents an extensive study on the physics of EBG structures for application in antenna and high frequency communications Includes metamaterials and metasurfaces for applications in photonics as well as in microwave engineering for high frequency communication systems Photonics Plasmonics and Information Optics Research and Technological Advances is aimed at researchers professionals and graduate students in optical communication silicon photonics photonic crystals semiconductor optical devices metamaterials and metasurfaces and microwave photonics Transform Methods for Solving Partial Differential Equations Dean G.

Duffy, 2004-07-15 Transform methods provide a bridge between the commonly used method of separation of variables and numerical techniques for solving linear partial differential equations While in some ways similar to separation of variables transform methods can be effective for a wider class of problems Even when the inverse of the transform cannot be found ana

Introduction To Modern Planar Transmission Lines Anand K. Verma, 2021-06-02 Provides a comprehensive discussion of planar transmission lines and their applications focusing on physical understanding analytical approach and circuit models Planar transmission lines form the core of the modern high frequency communication computer and other related technology This advanced text gives a complete overview of the technology and acts as a comprehensive tool for radio frequency RF engineers that reflects a linear discussion of the subject from fundamentals to more complex arguments Introduction to Modern Planar Transmission Lines Physical Analytical and Circuit Models Approach begins with a discussion of waves on transmission lines and waves in material medium including a large number of illustrative examples from published results After explaining the electrical properties of dielectric media the book moves on to the details of various transmission lines including waveguide microstrip line co planar waveguide strip line slot line and coupled transmission lines A number of special and advanced topics are discussed in later chapters such as fabrication of planar transmission lines static variational methods for planar transmission lines multilayer planar transmission lines spectral domain analysis resonators periodic lines and surfaces and metamaterial realization and circuit models Emphasizes modeling using physical concepts circuit models closed form expressions and full derivation of a large number of expressions Explains advanced mathematical treatment such as the variation method conformal mapping method and SDA Connects each section of the text with forward and backward cross referencing to aid in personalized self study Introduction to Modern Planar Transmission Lines is an ideal book for senior undergraduate and graduate students of the subject It will also appeal to new researchers with the inter disciplinary background as well as to engineers and professionals in industries utilizing RF microwave technologies *NASA Technical Report* United States. National Aeronautics and Space Administration, 1972

Electromagnetic Waves, 1994 *Electromagnetics and Network Theory and their Microwave Technology Applications* Stefan Lindenmeier, Robert Weigel, 2011-07-13 This volume provides a discussion of the challenges and perspectives of electromagnetics and network theory and their microwave applications in all aspects It collects the most interesting

contribution of the symposium dedicated to Professor Peter Russer held in October 2009 in Munich

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