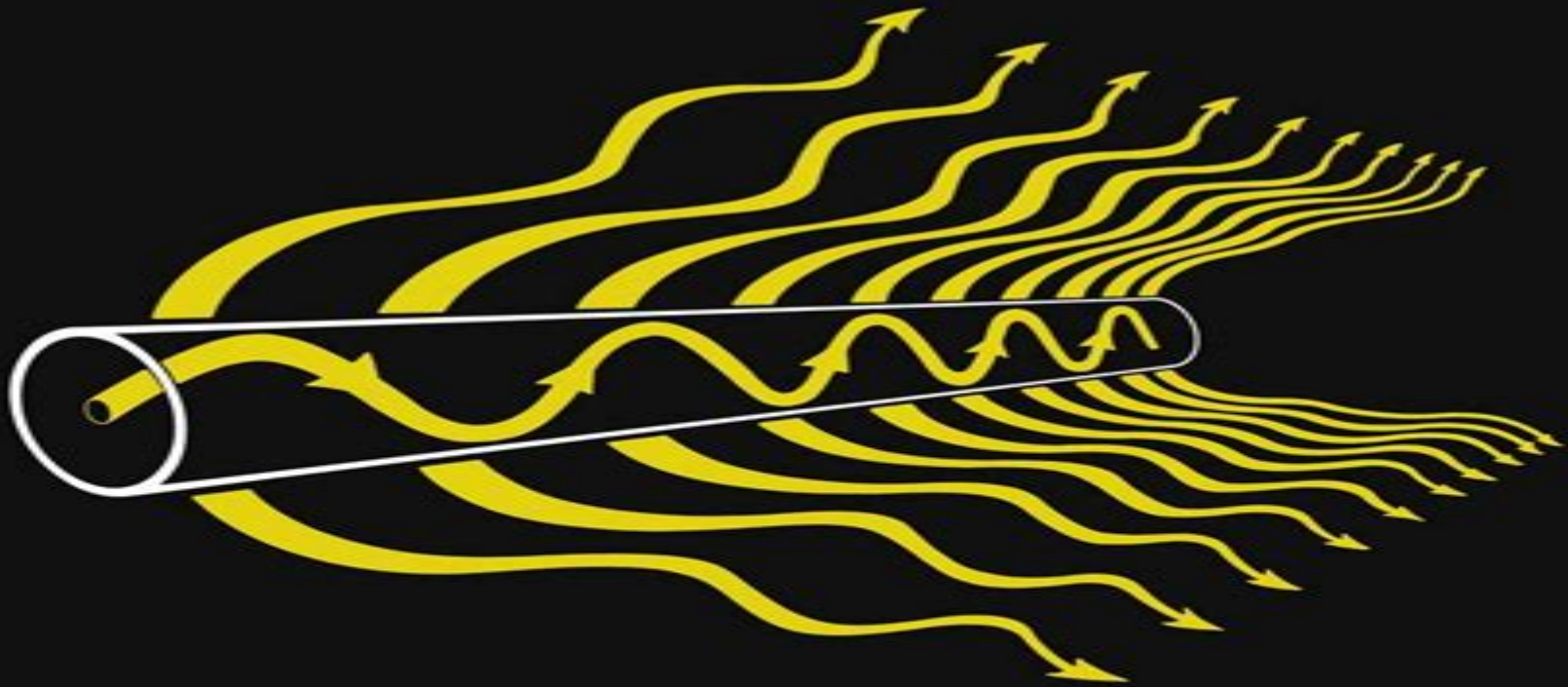


Optical Waveguide Theory

Allan W. Snyder *and* John D. Love



Optical Waveguide Theory

Charles Vassallo



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Optical Waveguides María L. Calvo, Vasudevan Lakshminarayanan, 2018-10-03 Although the theory and principles of optical waveguides have been established for more than a century the technologies have only been realized in recent decades *Optical Waveguides From Theory to Applied Technologies* combines the most relevant aspects of waveguide theory with the study of current detailed waveguiding technologies in particular photonic devices telecommunication applications and biomedical optics With self contained chapters written by well known specialists the book features both fundamentals and applications The first three chapters examine the theoretical foundations and bases of planar optical waveguides as well as critical optical properties such as birefringence and nonlinear optical phenomena The next several chapters focus on contemporary waveguiding technologies that include photonic devices and telecommunications The book concludes with discussions on additional technological applications including biomedical optical waveguides and the potential of neutron waveguides As optical waveguides play an increasing part in modern technology photonics will become to the 21st century what electronics were to the 20th century Offering both novel insights for experienced professionals and introductory material for novices this book facilitates a better understanding of the new information era the photonics century

Optical Waveguide Theory by the Finite Element Method Masanori Koshiba, 1993 Recent advances in the field of guided wave optics such as fibre optics and integrated optics have included the introduction of various optical waveguides Computational tools for modelling and simulation are essential for a successful design optimization and realization of the optical waveguides Despite its relatively brief existence the finite element method has grown into a powerful and efficient tool for solving the most general optical waveguide problems In this book starting with a brief review of electromagnetic theory for optical waveguide analysis the concepts of the finite element method and its fundamentals are discussed in detail Current topics of the application of the finite element method to various optical waveguide problems such as planar optical waveguides optical channel waveguides optical fibres polarization maintaining optical fibres optical gratings optical waveguide discontinuities nonlinear optical waveguides optical solitons and quantum well structures are described including many illustrations

Optical Waveguide Theory by the Finite Element Method Masanori Koshiba, 2014-01-14 Recent advances in the field of guided wave optics such as fiber optics and integrated optics have included the introduction of arbitrarily shaped optical waveguides which in many cases also happened to be arbitrarily inhomogeneous dissipative anisotropic and or nonlinear Most of such cases of waveguide arbitrariness do not lend themselves to analytical solutions hence computational tools for modeling and simulation are essential for successful design optimization and realization of the optical waveguides For this purpose various

numerical techniques have been developed. In particular the finite element method FEM is a powerful and efficient tool for the most general i.e. arbitrarily shaped inhomogeneous dissipative anisotropic and nonlinear optical waveguide problem. Its use in industry and research is extensive and indeed it could be said that without it many optical waveguide problems would be incapable of solution. This book is intended for students, engineers, designers and technical managers interested in a detailed description of the FEM for optical waveguide analysis. Starting from a brief review of electromagnetic theory, the first chapter provides the concepts of the FEM and its fundamentals. In addition to conventional elements i.e. line elements, triangular elements, tetrahedral elements, ring elements and triangular ring elements, which are utilized for one-dimensional, two-dimensional, three-dimensional, axisymmetric two-dimensional and axisymmetric three-dimensional problems respectively, special purpose elements such as isoparametric elements, edge elements, infinite elements and boundary elements are also introduced.

Fundamentals of Optical Waveguides Katsunari Okamoto, 2000-02-04. This book gives a complete theoretical basis of optical fibers and planar lightwave circuits while being the first book to deal with the principles and applications of Arrayed Waveguide Grating multiplexers and Planar Lightwave Circuits. This comprehensive book enables researchers and graduate students working with optoelectronics to acquire and utilize the analysis techniques necessary for designing and simulating novel optical fibers and devices.

Optical Waveguide Theory Yuri Shestopalov, Yuri 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.

Introduction to Optical Waveguide Analysis Kenji Kawano, Tsutomu Kitoh, 2004-03-22. A complete survey of modern design and analysis techniques for optical waveguides. This volume thoroughly details modern and widely accepted methods for designing the optical waveguides used in telecommunications systems. It offers a straightforward presentation of the sophisticated techniques used in waveguide analysis and enables a quick grasp of modern numerical methods with easy mathematics. The book is intended to guide the reader to a

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