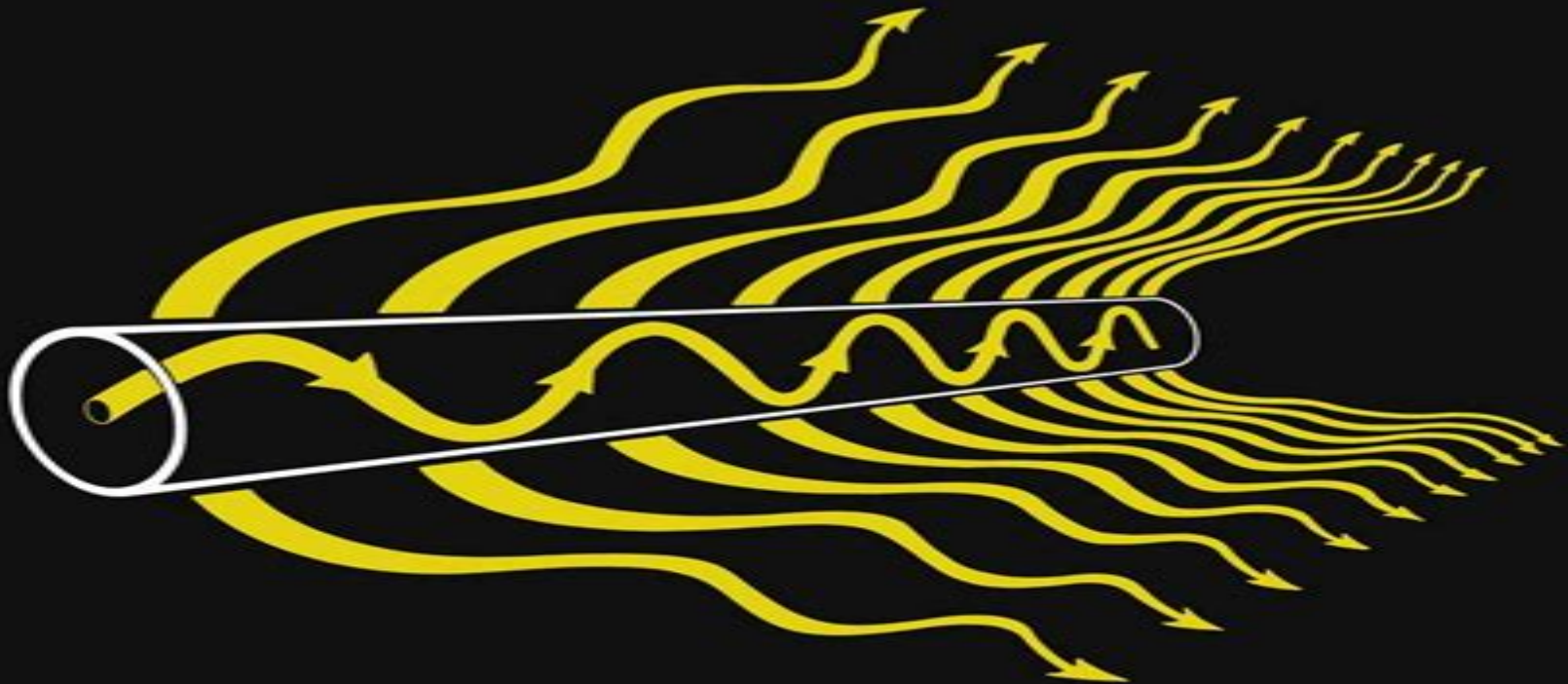


Optical Waveguide Theory

Allan W. Snyder *and* John D. Love



Optical Waveguide Theory

**María L. Calvo, Vasudevan
Lakshminarayanan**



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examples this book is accessible to undergraduates Many fundamental topics are presented here for the first time but more importantly the material is brought together to give a unified treatment of basic ideas using the simplest approach possible To achieve such a goal required a maturation of the subject and thus the text was intentionally developed over a protracted period of the last 10 years

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Theory of Dielectric Optical Waveguides Dietrich Marcuse, 2013-09-11 Theory of Dielectric Optical Waveguides

Optical Waveguide Theory Allan W. Snyder, J. Love, 2009-02 This title concentrates on powerful nonlinear situations when light guides itself in a homogenous medium without any intervening core cladding structure Its purpose is to impart the key concepts necessary to appreciate how to apply elementary wave guide theory to understand some of the more exciting recent advances

Fundamentals of Optical Waveguides Katsunari Okamoto, 2006

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coverage of polarization Mode Dispersion PMD About the Author Katsunari Okamoto was born in Hiroshima Japan on October 19 1949 He received the B S M S and Ph D in electronic engineering from Tokyo University Japan in 1972 1974 and 1977 respectively He has engaged in research on the transmission characteristics of various fibers including PANDA fibers as well as fiber optic components and proposed the idea of dispersion flattened fibers DFF on which he has also experimented Dr Okamoto has worked for the Optical Fiber Group in Southampton England and the NTT Photonics Laboratories at the Ibaraki R D Center where he developed various AWGs and integrated optic add drop multiplexers He is a fellow of IEEE and a research fellow of NTT Science and Core Technology Laboratory Group In 2003 he started Okamoto Laboratory Ltd Okamoto Laboratory is an R D consulting company that deals with the custom design of optical fibers and functional planar lightwave circuits

Optical Waveguide Theory by the Finite Element Method Masanori Koshiba, 2012-11-07 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

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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.

Optical Waveguide Concepts Charles Vassallo, 1991-01-01 Hardbound. This book is the first volume to appear in the new series *Optical Wave Sciences and Technology*. It provides a comprehensive review on recent trends in optical waveguide theory. The main focus of the work is on single mode optics, examining in turn the basic tools, the derivation of normal modes, the perturbation problems and finally the discontinuity problems. This new book series, which is open ended, is aimed at scientists working in the field of electromagnetic theory and its applications. Maxwell's equations will form the ultimate basis, either explicitly or implicitly, of every book in the series. Proceedings of the international workshop on optical waveguide theory Allan Synder, 1977. Optical Waveguide Theory and Numerical Modelling Wilfrid W. Pascher, Stefan F. Helfert, 2002. **Seventh International Workshop on Optical Waveguide Theory and Numerical Modelling** Olivier M. Parriaux, Jean-Pierre Meunier, 2000. **Differential Topology of Complex Surfaces** John W. Morgan, Kieran G. O'Grady, Millie Niss, 1993. **Optical Waveguide Theory and Numerical Modelling** Wilfrid W. Pascher, Stefan F. Helfert, 1999. **Optical Waveguide Theory and Numerical Modeling** Trevor Benson, Phillip Sewell, 2003. **Special Issue on Optical Waveguide Theory and Numerical Modelling**, 2005. **Special Issue on Optical Waveguide Theory and Numerical Modelling**, 1995. **The Essence of Dielectric Waveguides** C. Yeh, F. Shimabukuro, 2008-06-17. *The Essence of Dielectric Waveguides* provides an overview of the fundamental behavior of guided waves, essential to finding and interpreting the results of electromagnetic waveguide problems. Clearly and concisely written, as well as brilliantly organized, this volume includes a detailed description of the fundamentals of electromagnetics, as well as a new discussion on boundary conditions and attenuation. It also covers the propagation characteristics of guided waves along classical canonical dielectric structures: planar, circular, cylindrical, rectangular and elliptical waveguides. What's more, the authors have included extensive coverage of inhomogeneous structures and approximate methods, as well as several powerful numerical approaches specifically applicable to dielectric waveguides.

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