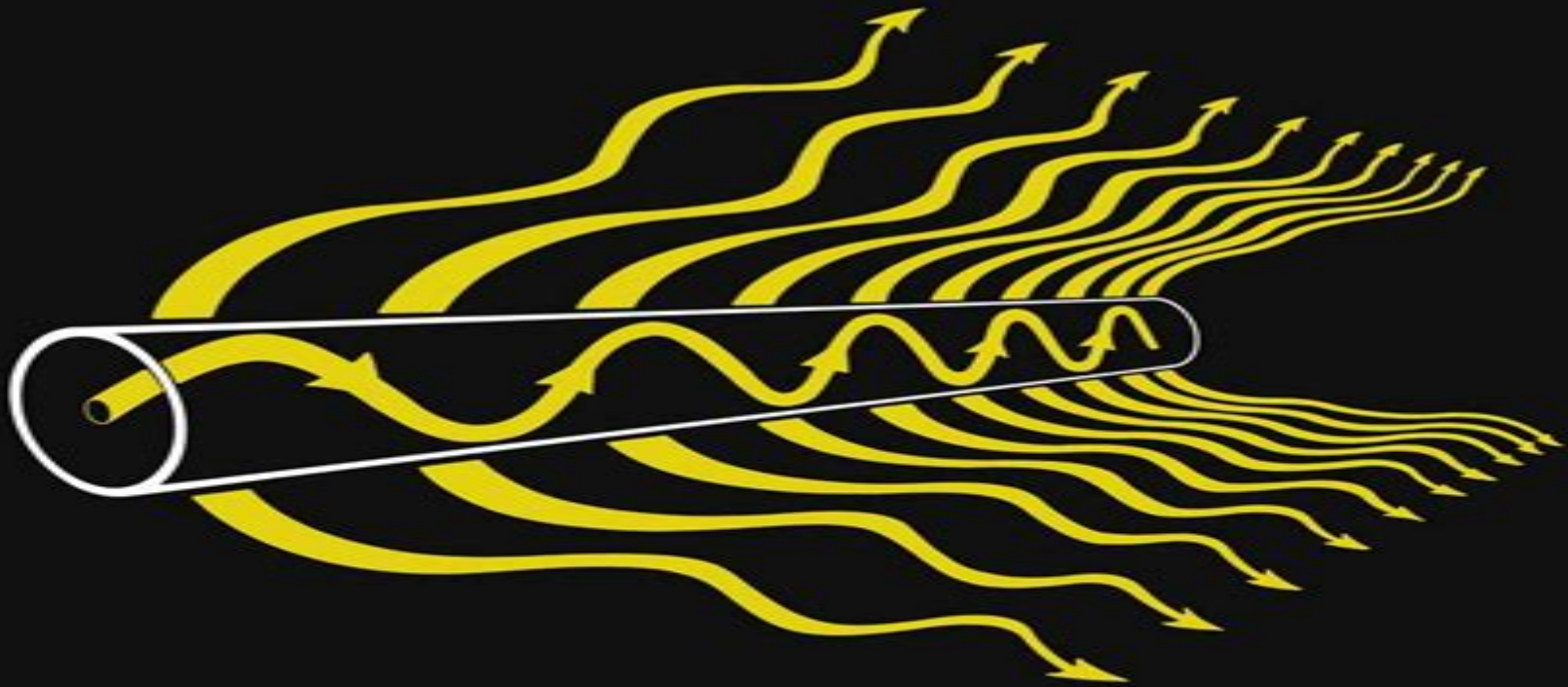


# Optical Waveguide Theory

Allan W. Snyder *and* John D. Love



# Optical Waveguide Theory

**Trevor Benson, Phillip Sewell**



## **Optical Waveguide Theory:**

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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

**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 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

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

**Fundamentals of Optical Waveguides** Katsunari Okamoto, 2006 Fundamentals of Optical Waveguides is an essential resource for any researcher professional or student involved in optics and communications engineering Any reader interested in designing or actively working with optical devices must have a firm grasp of the principles of lightwave propagation Katsunari Okamoto has presented this difficult technology clearly and concisely with several illustrations and equations Optical theory encompassed in this reference includes coupled mode theory nonlinear optical effects finite element method beam propagation method staircase concatenation method along with several central theorems and formulas Since the publication of the well received first edition of this book planar lightwave circuits and photonic crystal fibers have fully matured With this second edition the advances of these fibers along with other improvements on existing optical technologies are completely detailed This comprehensive volume enables readers to fully analyze design and simulate optical atmospheres Features Exceptional new chapter on Arrayed Waveguide Grating AWG In depth discussion of Photonic Crystal Fibers PCFs Thorough explanation of

Multimode Interference Devices MMI Full 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 Koshiha, 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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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.

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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