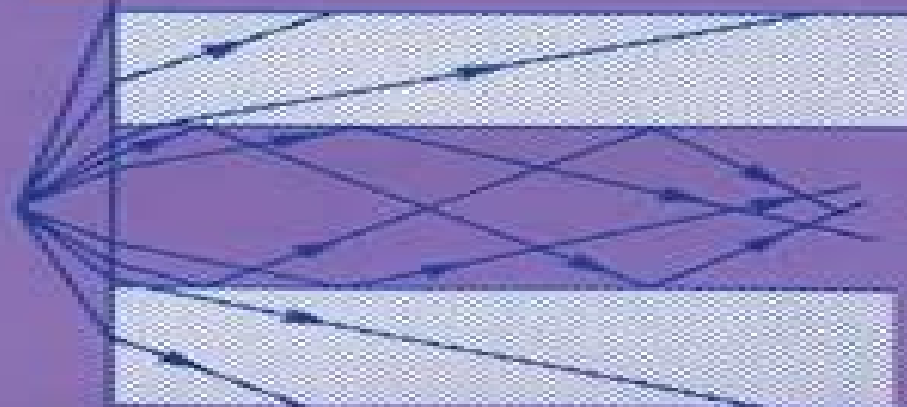


# HANDBOOK OF MICROWAVE AND OPTICAL COMPONENTS

Volume 4

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Fiber and Electro-Optical  
Components

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Edited by  
**Kai Chang**

# Handbook Of Microwave And Optical Components

## Optical Components

**Michael Shur**



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 1988 0 471 83189 1 914 pp Numerical Techniques for Microwave and Millimeter Wave Passive Structures Edited by Tatsuo Itoh This work presents practical numerical methods for analyzing passive structures in microwave and millimeter wave integrated circuits including the finite element method integral equation technique planar circuit analysis spectral domain approach and the method of lines Each chapter is devoted to a single method written by an expert in that technique beginning with a brief historical account followed by a description and detailed formulation of the method illustrated by practical examples By chapter s end the reader will be able to write computer programs employing the method discussed a number of chapters include sample computer programs for reference Appendixes references and an index complete this work  
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**and Engineering, 2 Volume Set** Kai Chang, 2003-11-19 The most comprehensive treatment to appear in book form Covers all important components in optical technology Provides a wealth of essential principles methods design information and references for today s complex and rapidly changing field of optical engineering The handbook editor is a well known researcher author journal and book editor Contributors are all leading researchers and practitioners *Handbook of Microwave and Optical Components, Fiber and Electro-Optical Components* Kai Chang, 1991 Microwave Circuit Design Using Linear and Nonlinear Techniques George D Vendelin Anthony M Pavio and Ulrich L Rohde This one volume source for the computer optimization of microwave passive and active circuits is a complete introduction to modern microwave engineering using the S parameter technique The text presents state of the art linear and nonlinear designs using computer aided methods popular in the design and manufacture of microwave amplifiers oscillators and mixers Ample and detailed discussion of the latest microwave transistors circuit design noise passive microwave elements and the incorporation of CAD into microwave integrated circuit MIC and monolithic microwave integrated circuit MMIC technology round out the text Techniques presented are illustrated with several MMIC designs which include a wideband amplifier a low noise amplifier and an MMIC mixer 1990 0 471 60276 0 757 pp Fundamentals of Photonics Bahaa E A Saleh and Malvin C Teich This invaluable work provides a detailed introduction to the fascinating and converging disciplines behind photonics Beginning with a discussion of the four theories of light ray optics wave optics electromagnetic optics and photon optics the theory of interaction of light with matter and the theory of semiconductor materials and their optical properties the text progresses to a survey of the field s up to the minute advances These include a look at Fourier optics and holography guided wave optics and optical fibers statistical optics photonic switching and computing and more Providing applications and examples of real systems the text skillfully balances theory and practice providing engineers researchers in fiber optics and communications and students with an authoritative first look at photonics 1991 0 471 83965 5 700 pp Handbook of Microwave and Optical Components: Microwave passive and antenna components Kai Chang, 1989 Electromagnetics, Microwave Circuit and Antenna Design for Communications Engineering Peter Russer, 2003 If you re looking for a clear comprehensive overview of basic electromagnetics principles and applications to antenna and microwave circuit design for communications this authoritative book is your best choice Including concise explanations of all required mathematical concepts needed to fully comprehend the material the book is your complete resource for understanding electromagnetics in current emerging and future broadband communication systems as well as high speed analogue and digital electronic circuits and systems

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*The Electrical Engineering Handbook, Second Edition* Richard C. Dorf, 1997-09-26 In 1993 the first edition of *The Electrical Engineering Handbook* set a new standard for

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