

Waveguide Switches

- Waveguide switches, crucial in microwave and optical systems, selectively transmit signals between waveguides
- Two main types are electromechanical, which are larger but reliable and power-capable, and solid-state switches known for quick switching and compactness
- Important parameters are frequency range, insertion loss, isolation, switching speed, and power handling
- Used in telecommunication, satellites, radar, and labs, their future lies in enhancing performance and expanding applications



Nonlinearoptic Waveguide Devices

Toshiaki Suhara, Masatoshi Fujimura



Nonlinearoptic Waveguide Devices:

Nonlinear Optical Waveguide Devices Hermann A. Haus,Massachusetts Institute of Technology. Research Laboratory of Electronics,Massachusetts Institute of Technology. Department of Electrical Engineering and Computer Science,1985

Finite Element Methods for Nonlinear Optical Waveguides Xin-Hua Wang,1996-02-09 This book provides researchers at the forefront of nonlinear optical technologies with robust procedures and software for the systematic investigation of the fundamental phenomena in nonlinear optical waveguide structures A full vectorial electromagnetic formulation is adopted and the conditions under which simplification to a scalar formulation is possible are clearly indicated The need to model the dielectric saturation properly is identified and improved algorithms are presented for obtaining the complete power dispersion curve of structures exhibiting bistability As the stability analysis of nonlinear modes is crucial to the development of nonlinear model methods an effective procedure to investigate the propagation of the scalar nonlinear waves in 3D is another important feature of the book All of the procedures described as well as an automatic mesh generator for the finite element method are incorporated into a software package which is included with this book

Nonlinear Optical Waveguide Devices in GaAs/AlGaAs Binderalpal Singh Bhumbra,1990 Waveguide Nonlinear-Optic Devices

Toshiaki Suhara,Masatoshi Fujimura,2003-06-23 The most comprehensive book on waveguide nonlinear optic devices this volume presents a systematic description of the NLO field with an emphasis on devices that use ferroelectric waveguides It ranges from an introduction to the concepts of waveguides to the most recent experimental results

Investigation of Polymer Optical Waveguide Devices James G. Grote,Joseph E. Brandelik,1999-11-01 This report is an initial investigation into polymer waveguides The CAD program BEAMPROP is utilized for modeling of waveguides Passive multi mode and single mode waveguides are considered For modeling nonlinear optical polymers in addition to the BEAMPROPAGATION BEAMPROP method the effective index method and the MARCATILI model are developed It is shown that a conducting cladding layer for the rectangular waveguides could significantly improve the operation performance of nonlinear optical poled polymer waveguides

Nonlinear Optics: Materials and Devices Christos Flytzanis,Jean L. Oudar,2012-12-06 The field of nonlinear optics has witnessed a tremendous evolution since its beginnings in the early sixties Its frontiers have been extended in many directions and its techniques have intruded upon many areas of both fundamental and practical interest The field itself has been enriched with many new phenomena and concepts that have further extended its scope and strengthened its connection with other areas As a consequence it is becoming increasingly unrealistic to expect to cover the different facets and trends of this field in the lectures or proceedings of a summer school however advanced these may be However much of the current progress and interest in this field springs to a large extent from the promise and expectation that highly performing all optical devices that exploit and operate on the principles of nonlinear optics will constitute an important branch of future technology and will provide new alternatives in information processing and transmission The

conception of new devices in general requires an intricate and bold combination of facts and methods from most diverse fields in order to perform functions and operations that fit into an overall technological ensemble

Nonlinear-Emission Photonic Glass Fiber and Waveguide Devices Chun Jiang, Pei Song, 2019-05-02 Learn about the design of compact and broadband fiber and waveguide devices using active ion doped photonic glasses

Handbook of Advanced Electronic and Photonic Materials and Devices: Nonlinear optical materials Hari Singh Nalwa, 2001 Electronic and photonic materials discussed in this handbook are the key elements of continued scientific and technological advances in the 21st century The electronic and photonic materials comprising this handbook include semiconductors superconductors ferroelectrics liquid crystals conducting polymers organic and superconductors conductors nonlinear optical and optoelectronic materials electrochromic materials laser materials photoconductors photovoltaic and electroluminescent materials dielectric materials nanostructured materials supramolecular and self assemblies silicon and glasses photosynthetic and respiratory proteins etc etc Some of these materials have already been used and will be the most important components of the semiconductor and photonic industries computers internet information processing and storage telecommunications satellite communications integrated circuits photocopiers solar cells batteries light emitting diodes liquid crystal displays magneto optic memories audio and video systems recordable compact discs video cameras X ray technology color imaging printing flat panel displays optical waveguides cable televisions computer chips molecular sized transistors and switches as well as other emerging cutting edge technologies Electronic and photonic materials are expected to grow to a trillion dollar industry in the new millennium and will be the most dominating forces in the emerging new technologies in the fields of science and engineering This handbook is a unique source of the in depth knowledge of synthesis processing fabrication spectroscopy physical properties and applications of electronic and photonic materials covering everything for today s and developing future technologies This handbook consists of over one hundred state of the art review chapters written by more than 200 world leading experts from 25 different countries With more than 23 000 bibliographic citations and several thousands of figures tables photographs chemical structures and equations this handbook is an invaluable major reference source for scientists and students working in the field of materials science solid state physics chemistry electrical and optical engineering polymer science device engineering and computational engineering photophysics data storage and information technology and technocrats everyone who is involved in science and engineering of electronic and photonic materials

Key Features This is the first handbook ever published on electronic and photonic materials 10 volumes summarize the advances in electronic and photonic materials made over past the two decades This handbook is a unique source of the in depth knowledge of synthesis processing spectroscopy physical properties and applications of electronic and photonic materials Over 100 state of the art review chapters written by more than 200 leading experts from 25 different countries About 25 000 bibliographic citations and several thousand figures tables photographs chemical structures and equations Easy access to

electronic and photonic materials from a single reference Each chapter is self contained with cross references Single reference having all inorganic organic and biological materials Witten in very clear and concise fashion for easy understanding of structure property relationships in electronic and photonic materials

All-optical nonlinear waveguide devices Wayne M. Gibbons,1987 Nonlinear Optical Waveguides and Advanced Fibre Devices Institution of Electrical Engineers,1987 **Nonlinear Optical Properties of Advanced Materials** Shahab Etamad,1993 *Scientific and Technical Aerospace Reports* ,1992 **Nonlinear Optics** Christos Flytzanis,Jean Louis Oudar,1986 **Study of All-optical Nonlinear Waveguide Devices** ,2003 **Thin Films for Optical Waveguide Devices and Materials for Optical Limiting: Volume 597** Keiichi Nashimoto,2000-10-02 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

Nonlinear Optical Properties of Organic Materials ,1994 *Nonlinear Optical Polymers: Waveguide Devices Based on Second Order Effects* Winfred H. G. Horsthuis,Gustaaf R. Mohlmann,Hans W. Mertens,AKZO RESEARCH LABS ARNHEM (Netherlands),1992 In the past few years organic materials have gained much interest for application in nonlinear optical devices The initial sepsis towards these new materials has decreased since interesting results have been obtained using these materials The advantages of such materials expected by early workers in the field have partially been proven High electro optic coefficients have been reported and reasonably well performing integrated optic devices have been realized Some other items such as long term stability mode matching and low cost production still need further investigations and development Nonlinear optic organic materials can be divided in several classes organic single crystals Langmuir Blodgett films and several polymeric systems solid solutions main chain polymers sidechain polymers Until now side chain polymers appear to be the most promising class mainly because of their attractive processing characteristics and the flexibility in molecular design

Special Issue on Nonlinear Optical Waveguides and Advanced Fibre Devices Nick Doran,1987 *Nonlinear Glass Waveguide Devices Fabricated by Femtosecond Laser Writing with Thermal Poling and Waveguide Modeling for Silver Ion Exchange in Glass* Guangyu Li,2006 **Symposium on Macromolecules** ,1992

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