



2D materials + Waveguide structures



Strip Waveguide



Ridge Waveguide



Slot Waveguide



Photonic Crystal Waveguide



Plasmonic Waveguide



Microring Resonator



Microdisk Resonator



Nanobeam Cavity

...

Optical Waveguide Materials

Robert A. Norwood

Optical Waveguide Materials:

Advanced Materials for Integrated Optical Waveguides Xingcun Colin Tong Ph.D,2013-10-17 This book provides a comprehensive introduction to integrated optical waveguides for information technology and data communications Integrated coverage ranges from advanced materials fabrication and characterization techniques to guidelines for design and simulation A concluding chapter offers perspectives on likely future trends and challenges The dramatic scaling down of feature sizes has driven exponential improvements in semiconductor productivity and performance in the past several decades However with the potential of gigascale integration size reduction is approaching a physical limitation due to the negative impact on resistance and inductance of metal interconnects with current copper trace based technology Integrated optics provides a potentially lower cost higher performance alternative to electronics in optical communication systems Optical interconnects in which light can be generated guided modulated amplified and detected can provide greater bandwidth lower power consumption decreased interconnect delays resistance to electromagnetic interference and reduced crosstalk when integrated into standard electronic circuits Integrated waveguide optics represents a truly multidisciplinary field of science and engineering with continued growth requiring new developments in modeling further advances in materials science and innovations in integration platforms In addition the processing and fabrication of these new devices must be optimized in conjunction with the development of accurate and precise characterization and testing methods Students and professionals in materials science and engineering will find Advanced Materials for Integrated Optical Waveguides to be an invaluable reference for meeting these research and development goals

Optical Waveguide Materials: Volume 244 Matthijs M. Broer,1992-04-03 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

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

Design and Fabrication of Planar Optical Waveguide Devices and Materials Robert A. Norwood,2002

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 **Fabrication of Optical Waveguides in Crystalline Materials** Gary W.

Russell,2003 **Planar Waveguide Optical Sensors** Aradhana Dutta,Bidyut Deka,Partha Pratim Sahu,2016-08-30 This book concentrates on the design and development of integrated optic waveguide sensors using silicon based materials The implementation of such system as a tool for detecting adulteration in petroleum based products as well as its use for detection of glucose level in diabetes are highlighted The first chapters are dedicated to the development of the theoretical model while the final chapters are focused on the different applications of such sensors It gives the readers the full background in the field of sensors reasons for using silicon oxynitride as a potential waveguide material as well as its fabrication processes and possible uses *Beam Propagation Method for Design of Optical Waveguide Devices* Ginés Lifante Pedrola,2015-10-13

The basic of the BPM technique in the frequency domain relies on treating the slowly varying envelope of the monochromatic electromagnetic field under paraxial propagation thus allowing efficient numerical computation in terms of speed and allocated memory In addition the BPM based on finite differences is an easy way to implement robust and efficient computer codes This book presents several approaches for treating the light wide angle scalar approach semivectorial treatment and full vectorial treatment of the electromagnetic fields Also special topics in BPM cover the simulation of light propagation in anisotropic media non linear materials electro optic materials and media with gain losses and describe how BPM can deal with strong index discontinuities or waveguide gratings by introducing the bidirectional BPM BPM in the time domain is also described and the book includes the powerful technique of finite difference time domain method which fills the gap when the standard BPM is no longer applicable Once the description of these numerical techniques have been detailed the last chapter includes examples of passive active and functional integrated photonic devices such as waveguide reflectors demultiplexers polarization converters electro optic modulators lasers or frequency converters The book will help readers to understand several BPM approaches to build their own codes or to properly use the existing commercial software based on these numerical techniques **Ion Beam Modification of Materials** J.S.

Williams,R.G. Elliman,M.C. Ridgway,2012-12-02 This conference consisted of 15 oral sessions including three plenary papers covering areas of general interest 22 specialist invited papers and 51 contributed presentations as well as three poster sessions There were several scientific highlights covering a diverse spectrum of materials and ion beam processing methods These included a wide range of conventional and novel applications such as optical displays and opto electronics motor vehicle and tooling parts coatings tailored for desired properties studies of fundamental defect properties the production of novel often buried compounds and treating biomedical materials The study of nanocrystals produced by ion implantation in a

range of host matrices particularly for opto electronics applications was one especially new and exciting development Despite several decades of study major progress was reported at the conference in understanding defect evolution in semiconductors and the role of defects in transient impurity diffusion The use of implantation to tune or isolate optical devices and in forming optically active centres and waveguides in semiconductors polymers and oxide ceramics was a major focus of several presentations at the conference The formation of hard coatings by ion assisted deposition or direct implantation was also an area which showed much recent progress Ion beam techniques had also developed apace particularly those based on plasma immersion ion implantation or alternative techniques for large area surface treatment Finally the use of ion beams for the direct treatment of cancerous tissue was a particularly novel and interesting application of ion beams

Thin Film Physics And Devices: Fundamental Mechanism, Materials And Applications For Thin Films Jianguo Zhu,Xiaohong Zhu,Hong Liu,Jie Xing,2021-06-18

Thin films have an extremely broad range of applications from electronics and optics to new materials and devices Collaborative and multidisciplinary efforts from physicists materials scientists engineers and others have established and advanced a field with key pillars constituting i the synthesis and processing of thin films ii the understanding of physical properties in relation to the nanometer scale iii the design and fabrication of nano devices or devices with thin film materials as building blocks and iv the design and construction of novel tools for characterization of thin films Against the backdrop of the increasingly interdisciplinary field this book sets off to inform the basics of thin film physics and thin film devices Readers are systematically introduced to the synthesis processing and application of thin films they will also study the formation of thin films their structure and defects and their various properties mechanical electrical semiconducting magnetic and superconducting With a primary focus on inorganic thin film materials the book also ventures on organic materials such as self assembled monolayers and Langmuir Blodgett films This book will be effective as a teaching or reference material in the various disciplines ranging from Materials Science and Engineering Electronic Science and Engineering Electronic Materials and Components Semiconductor Physics and Devices to Applied Physics and more The original Chinese publication has been instrumental in this purpose across many Chinese universities and colleges

Design and Fabrication of Planar Optical Waveguide Devices and Materials Robert A. Norwood,2002

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Semiconductor Photonics: Nano-Structured Materials and Devices Soo Jin Chua,Jing Hua Teng,O. Wada,R.M. De La Rue,Xiao Hong

Tang,2007-11-20 Selected peer reviewed papers from the International Conference on Materials for Advanced Technologies Symposium D Semiconductor Photonics Nano structured Materials and Devices ICMAT 2007 held in Singapore on July 1 6 2007

Fabrication of an Optical Waveguide Using Polymer Materials Azeana Ab. Kadir,2002

An Introduction to Optical Waveguides M. J. Adams,1981

Integrated Optics: Devices, Materials, and Technologies ,2003

New Materials for Optical Waveguides Jacques Lucas,Association nationale de la recherche technique,1987

Photonics, Volume 4 David L. Andrews,2015-02-27 Discusses the basic physical principles underlying Biomedical Photonics spectroscopy and

microscopy This volume discusses biomedical photonics spectroscopy and microscopy the basic physical principles underlying the technology and its applications The topics discussed in this volume are Biophotonics Fluorescence and Phosphorescence Medical Photonics Microscopy Nonlinear Optics Ophthalmic Technology Optical Tomography Optofluidics Photodynamic Therapy Image Processing Imaging Systems Sensors Single Molecule Detection Futurology in Photonics Comprehensive and accessible coverage of the whole of modern photonics Emphasizes processes and applications that specifically exploit photon attributes of light Deals with the rapidly advancing area of modern optics Chapters are written by top scientists in their field Written for the graduate level student in physical sciences Industrial and academic researchers in photonics graduate students in the area College lecturers educators policymakers consultants Scientific and technical libraries government laboratories NIH **Intensity-dependent Effects in Optical Waveguides** Martin Kull,1989

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