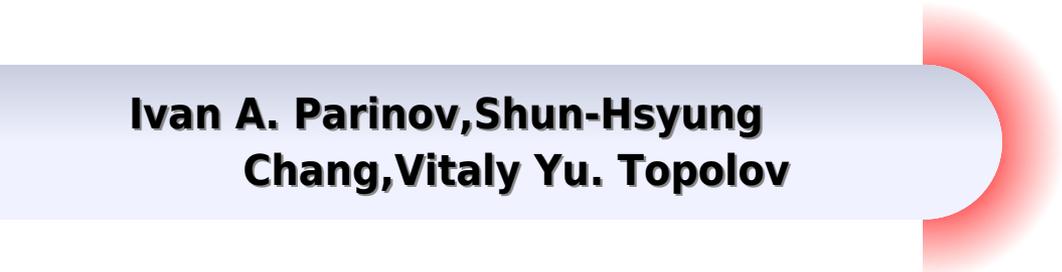




Comsol Optical Waveguide Simulation

**Ivan A. Parinov, Shun-Hsyung
Chang, Vitaly Yu. Topolov**



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This pictorial manuscript is a step by step graphical illustrations for waveguides and devices modeling and computational physics simulation using COMSOL Multiphysics with Ray Optics Wave Optics and AC DC Electrostatics modules All the example models investigated and visualized with the help of Finite Element Analysis are referenced from the standard USA undergraduate text on Optical Guided Waves and Devices by Richard Syms and John Cozens The simulations include the use of geometrical ray tracings for point source and full electromagnetic waves source employing the Maxwell s wave equations for plane wave input Both 2D and 3D simulation results will help in visualize the electromagnetic field propagating inside the waveguides and devices Readers without fundamental handle on optics modeling are suggested to read the Optics Modeling and Visualization with COMSOL Multiphysics A step by step graphical instruction manuscripts for detailed discussion These models may be expanded to post graduate research and industrial photonics waveguides and devices development There are 46 chapters of different 2D and 3D optical waveguides devices structures modeled and simulated in Volume 1 and 2 Volume 1 models include 3D single mode optical fiber planar waveguide channel waveguide longitudinal and transverse phase modulator surface plasmon optical square waveguide tapered waveguide FTIR beamsplitter in ray tracing and electromagnetic wave solvers full prism coupler halved prism coupler plano convex overlay lens overlay Luneburg lens geodesic lens with control setup for resulted electric field comparison corrugated gratings transmission and reflection gratings chirped grating lens beam expander grating grating coupler chirped grating coupler buried channel waveguide Volume 2 models continue with the ridge channel waveguide strip loaded channel waveguide GaAs GaAlAs planar waveguide GaAs GaAlAs heterostructure waveguide radiation leaks at fiber bend radiation leaks at waveguide bend c axis Calcite polarizer waveguide integrated optic normal reflector horn channel waveguide Y Junction waveguide optical phase modulator cut off modulator electro optic Mach Zehnder interferometer waveguide parallel coupling waveguide electro optic directional coupler single polished fiber directional coupler double polished fiber directional coupler tunable coupling strength of polished double fiber coupler cross sectional coaxial fiber coupler 2D directional coupler with tapered coupling corrugated reflection gratings optical fiber grating on half polished fiber coupler and track changing reflector with grating assisted coupling fiber

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employing the Maxwell's wave equations for plane wave input Both 2D and 3D simulation results will help in visualize the electromagnetic field propagating inside the waveguides and devices Readers without fundamental handle on optics modeling are suggested to read the Optics Modeling and Visualization with COMSOL Multiphysics A step by step graphical instruction manuscripts for detailed discussion These models may be expanded to post graduate research and industrial photonics waveguides and devices development There are 46 chapters of different 2D and 3D optical waveguides devices structures modeled and simulated in Volume 1 and 2 Volume 1 models include 3D single mode optical fiber planar waveguide channel waveguide longitudinal and transverse phase modulator surface plasmon optical square waveguide tapered waveguide FTIR beamsplitter in ray tracing and electromagnetic wave solvers full prism coupler halved prism coupler plano convex overlay lens overlay Luneburg lens geodesic lens with control setup for resulted electric field comparison corrugated gratings transmission and reflection gratings chirped grating lens beam expander grating grating coupler chirped grating coupler buried channel waveguide Volume 2 models continue with the ridge channel waveguide strip loaded channel waveguide GaAs GaAlAs planar waveguide GaAs GaAlAs heterostructure waveguide radiation leaks at fiber bend radiation leaks at waveguide bend c axis Calcite polarizer waveguide integrated optic normal reflector horn channel waveguide Y Junction waveguide optical phase modulator cut off modulator electro optic Mach Zehnder interferometer waveguide parallel coupling waveguide electro optic directional coupler single polished fiber directional coupler double polished fiber directional coupler tunable coupling strength of polished double fiber coupler cross sectional coaxial fiber coupler 2D directional coupler with tapered coupling corrugated reflection gratings optical fiber grating on half polished fiber coupler and track changing reflector with grating assisted coupling fiber

Methods and Applications for Modeling and Simulation of Complex Systems Fazilah Hassan, Noorhazirah Sunar, Mohd Ariffanan Mohd Basri, Mohd Saiful Azimi Mahmud, Mohamad Hafis Izran Ishak, Mohamed Sultan Mohamed Ali, 2023-10-12 This book constitutes the refereed proceedings of the 22nd Asia Simulation Conference on Methods and Applications for Modeling and Simulation of Complex Systems AsiaSim 2023 held in Langkawi Malaysia during October 25-26 2023 The 77 full papers included in this book were carefully reviewed and selected from 164 submissions They were organized in topical sections as follows Modelling and Simulation Artificial intelligence Industry 4.0 Digital Twins Modelling Simulation and Gaming Simulation for Engineering Simulation for Sustainable Development Simulation in Social Sciences

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Advanced Materials Ivan A. Parinov, Shun-Hsyung Chang, Vitaly Yu. Topolov, 2015-12-14 This proceedings volume presents selected and peer reviewed 50 reports of the 2015 International Conference on Physics and Mechanics of New Materials and Their Applications Azov Russia 19-22 May 2015 devoted to 100th Anniversary of the Southern Federal University Russia The book presents processing techniques physics mechanics and applications of advanced materials The book is concentrated on some nanostructures ferroelectric crystals materials and composites and other materials with specific properties In this book are presented nanotechnology approaches modern piezoelectric techniques physical and mechanical studies of the structure sensitive properties of the materials A wide spectrum of mathematical and numerical methods is applied to the solution of different technological mechanical and physical problems for applications Great attention is devoted to novel devices with high accuracy longevity and extended possibilities to work in a large scale of temperatures and pressure ranges aggressive media etc The characteristics of materials and composites with improved properties is shown and new possibilities in studying of various physico mechanical processes and phenomena are demonstrated

Lithium Niobate Photonics James E. Toney, 2015-07-01 This new resource presents the concepts technologies and design techniques for devices based on the electro optic effect in lithium niobate It bridges from the theory of photonics and electro optics to the practice of electro optic device design and application There is an emphasis on practical analysis using modern modeling tools The book explains the fundamental physics of the electro optic effect classes of electro optic materials electro optic properties of lithium niobate and the physics and uses of ferroelectric domain inversion Readers are also provided with the principles of operation performance measures and design considerations for the most common types of electro optic devices beam deflectors intensity and phase modulators including quasi phased matched devices

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photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature **Computational Photonics** Salah Obayya,2011-06-20 This book explores the state of the art in computational modelling techniques for photonic devices In this book the author provides a comprehensive coverage of modern numerical modelling techniques for designing photonic devices for use in modern optical telecommunications systems In addition the book presents the state of the art in computational photonics techniques covering methods such as full vectorial finite element beam propagation bidirectional beam propagation complex envelope alternative direction implicit finite difference time domain multiresolution time domain and finite volume time domain The book guides the reader through the concepts of modelling analysing designing and optimising the performance of a wide range of photonic devices by building their own numerical code using these methods Key Features Provides a thorough presentation of the state of the art in computational modelling techniques for photonics Contains broad coverage of both frequency and time domain techniques to suit a wide range of photonic devices Reviews existing commercial software packages for photonics Presents the advantages and disadvantages of the different modelling techniques as well as their suitability for various photonic devices Shows the reader how to model analyse design and optimise the performance of a wide range of photonic devices by building their own numerical code using these methods Accompanying website contains the numerical examples representing the numerical techniques in this book as well as several design examples http://www.wiley.com/go/obayya_computational This book will serve as an invaluable reference for researchers optical telecommunications engineers engineers in the photonics industry PhD and MSc students undertaking courses in the areas of photonics and optical telecommunications will also find this book of interest **NASA Tech Briefs** ,2004 Optoelectronic Materials and Devices for Optical Communications Shinji Tsuji,Jens Buus,Yi Luo,2005 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature **Optics Letters** ,2008 Dissertation Abstracts International ,2008 *Journal of the Optical Society of America* ,2005 *Novel In-plane Semiconductor Lasers* ,2007 Recent Progress on Mass Transport Related Processes in Engineering Materials Andreas Öchsner,Graeme Murch,Ali Shokuhfar,J.M.P.Q. Delgado,2020-03-31 Special topic volume with invited peer reviewed papers only **JJAP** ,2008 **Mechanical Components and Control Engineering III** Wei Min Ge,2014-10-08 Selected peer reviewed papers from the 3rd Asian Pacific Conference on Mechanical Components and Control Engineering MCCE 2014 September 20 21 2014 Tianjin China *Journal of the Physical Society of Japan* ,2017 **Finite Element Modeling Methods for Photonics** B. M. Azizur Rahman ,Arti Agrawal ,2013-08-01 The term photonics can be used loosely to refer to a vast array of components devices and technologies that in some way involve manipulation of light One of the most powerful

numerical approaches available to engineers developing photonic components and devices is the Finite Element Method FEM which can be used to model and simulate such components devices and analyze how they will behave in response to various outside influences This resource provides a comprehensive description of the formulation and applications of FEM in photonics applications ranging from telecommunications astronomy and sensing to chemistry imaging and biomedical R D This book emphasizes practical problem solving applications and includes real world examples to assist readers in understanding how mathematical concepts translate to computer code for finite element based methods applicable to a range of photonic structures In addition this is the perfect support to anyone using the COMSOL Multiphysics RF Module

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