

SLOW LIGHT



scenariusz, adaptacja, projekt: Kojek/Adamski

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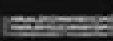
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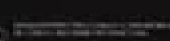
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Slow Light

**Xianping Wang, Cheng Yin, Zhuangqi
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Slow Light:

Slow Light Jacob B. Khurgin, Rodney S. Tucker, 2018-10-08 One of the Top Selling Physics Books according to YBP Library Services The exotic effects of slow light have been widely observed in the laboratory However current literature fails to explore the wider field of slow light in photonic structures and optical fibers Reflecting recent research *Slow Light Science and Applications* presents a comprehensive introduction to slow light and its potential applications including storage switching DOD applications and nonlinear optics The book covers fundamentals of slow light in various media including atomic media semiconductors fibers and photonic structures Leading authorities in such diverse fields as atomic vapor spectroscopy fiber amplifiers and integrated optics provide an interdisciplinary perspective They uncover potential applications in both linear and nonlinear optics While it is impossible to account for all the captivating developments that have occurred in the last few years this book provides an exceptional survey of the current state of the slow light field

Slow Light Jacob B. Khurgin, Rodney S. Tucker, 2009 **Slow Light** Sidney Perkowitz, 2011 *Slow Light* is a popular treatment of today's astonishing breakthroughs in the science of light Even though we don't understand light's quantum mysteries we can slow it to a stop and speed it up beyond its Einsteinian speed limit 186 000 miles/sec use it for quantum telecommunications teleport it manipulate it to create invisibility and perhaps generate hydrogen fusion power with it All this is lucidly presented for non scientists who wonder about teleportation Harry Potter invisibility cloaks and other fantastic outcomes *Slow Light* shows how the real science and the fantasy inspire each other and projects light's incredible future Emory physicist Sidney Perkowitz discusses how we are harnessing the mysteries of light into technologies like lasers and fiber optics that are transforming our daily lives Science fiction fantasies like Harry Potter's invisibility cloak are turning into real possibilities

Fast Light, Slow Light and Left-Handed Light P.W. Milonni, 2004-11-30 The propagation of light in dispersive media is a subject of fundamental as well as practical importance In recent years attention has focused in particular on how refractive index can vary with frequency in such a way that the group velocities of optical pulses can be much greater or much smaller than the speed of light in vacuum or in which the refractive index can be negative Treating these topics at an introductory to intermediate level *Fast Light Slow Light and Left Handed Light* focuses on the basic theory and describes the significant experimental progress made during the past decade The book pays considerable attention to the fact that superluminal group velocities are not in conflict with special relativity and to the role of quantum effects in preventing superluminal communication and violations of Einstein causality It also explores some of the basic physics at the opposite extreme of very slow group velocities as well as stopped and regenerated light including the concepts of electromagnetically induced transparency and dark state polaritons Another very active aspect of the subject discussed concerns the possibility of designing metamaterials in which the refractive index can be negative and propagating light is left handed in the sense that the phase and group velocities are in opposite directions The last two chapters are an introduction

to some of the basic theory and consequences of negative refractive index with emphasis on the seminal work carried out since 2000 The possibility that perfect lenses can be made from negative index metamaterials which has been perhaps the most controversial aspect of the field is introduced and discussed in some detail Progress in Planar Optical Waveguides Xianping Wang, Cheng Yin, Zhuangqi Cao, 2015-11-25 This book provides a comprehensive description of various slab waveguide structures ranged from graded index waveguide to symmetrical metal cladding waveguide In this book the transfer Matrix method is developed and applied to analyze the simplest case and the complex generalizations A novel symmetrical metal cladding waveguide structure is proposed and systematically investigated for several issues of interest such as biochemical sensing Goos H nchen shift and the slow light effect etc Besides this book summarizes the authors research works on waveguides over the last decade The readers who are familiar with basic optics theory may find this book easy to read and rather inspiring Photonics, Volume 1 David L. Andrews, 2015-01-16 Covers modern photonics accessibly and discusses the basic physical principles underlying all the applications and technology of photonics This volume covers the basic physical principles underlying the technology and all applications of photonics from statistical optics to quantum optics The topics discussed in this volume are Photons in perspective Coherence and Statistical Optics Complex Light and Singular Optics Electrodynamics of Dielectric Media Fast and slow Light Holography Multiphoton Processes Optical Angular Momentum Optical Forces Trapping and Manipulation Polarization States Quantum Electrodynamics Quantum Information and Computing Quantum Optics Resonance Energy Transfer Surface Optics Ultrafast Pulse Phenomena 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 Handbook of Silicon Photonics Laurent Vivien, Lorenzo Pavesi, 2016-04-19 The development of integrated silicon photonic circuits has recently been driven by the Internet and the push for high bandwidth as well as the need to reduce power dissipation induced by high data rate signal transmission To reach these goals efficient passive and active silicon photonic devices including waveguide modulators photodetectors **Silicon-Based Photonics** Erich Kasper, Jinzhong Yu, 2020-07-24 Silicon photonics has evolved rapidly as a research topic with enormous application potential The high refractive index contrast of silicon on insulator SOI shows great promise for submicron waveguide structures suited for integration on the chip scale in the near infrared region Ge and GeSn Si heterostructures with different elastic strain levels already provide expansion of the spectral range high speed operation efficient modulation and switching of optical signals and enhanced light emission and lasing This book focuses on the integration of heterostructure devices with silicon photonics The authors have attempted to merge a concise treatment of classical silicon photonics with a description of

principles prospects challenges and technical solution paths of adding silicon based heterostructures The book discusses the basics of heterostructure based silicon photonics system layouts and key device components keeping in mind the application background Special focus is placed on SOI based waveguide configurations and Ge and GeSn Si heterostructure devices for light detection modulation and light emission and lasing The book also provides an overview of the technological and materials science challenges connected with integration on silicon The first half of the book is mainly for readers who are interested in the topic because of its increasing importance in different fields while the latter half covers different device structures for light emission detection modulation extension of the wavelength beyond 1.6 μm and lasing as well as future challenges

Chalcogenide Glasses J-L Adam,X. Zhang,2014-02-14 The unique properties and functionalities of chalcogenide glasses make them promising materials for photonic applications Chalcogenide glasses are transparent from the visible to the near infrared region and can be moulded into lenses or drawn into fibres They have useful commercial applications as components for lenses for infrared cameras and chalcogenide glass fibres and optical components are used in waveguides for use with lasers for optical switching chemical and temperature sensing and phase change memories Chalcogenide glasses comprehensively reviews the latest technological advances in this field and the industrial applications of the technology Part one outlines the preparation methods and properties of chalcogenide glasses including the thermal properties structure and optical properties before going on to discuss mean coordination and topological constraints in chalcogenide network glasses and the photo induced phenomena in chalcogenide glasses This section also covers the ionic conductivity and physical aging of chalcogenide glasses deposition techniques for chalcogenide thin films and transparent chalcogenide glass ceramics Part two explores the applications of chalcogenide glasses Topics discussed include rare earth doped chalcogenide glass for lasers and amplifiers the applications of chalcogenide glasses for infrared sensing microstructured optical fibres for infrared applications and chalcogenide glass waveguide devices for all optical signal processing This section also discusses the control of light on the nanoscale with chalcogenide thin films chalcogenide glass resists for lithography and chalcogenide for phase change optical and electrical memories The book concludes with an overview of chalcogenide glasses as electrolytes for batteries Chalcogenide glasses comprehensively reviews the latest technological advances and applications of chalcogenide glasses and is an essential text for academics materials scientists and electrical engineers working in the photonics and optoelectronics industry Outlines preparation methods and properties and explores applications of chalcogenide glasses Covers the ionic conductivity and physical aging of chalcogenide glasses deposition techniques for chalcogenide thin films and transparent chalcogenide glass ceramics Discusses the control of light on the nanoscale with chalcogenide thin films chalcogenide glass resists for lithography and chalcogenide for phase change optical and electrical memories

Nonlinear Meta-Optics Costantino De Angelis,Giuseppe Leo,Dragomir N. Neshev,2020-05-20 This book addresses fabrication as well as characterization and modeling of semiconductor

nanostructures in the optical regime with a focus on nonlinear effects The visible range as well as near and far infrared spectral region will be considered with a view to different envisaged applications The book covers the current key challenges of the research in the area including exploiting new material platforms fully extending the device operation into the nonlinear regime adding re configurability to the envisaged devices and proposing new modeling tools to help in conceiving new functionalities Explores several topics in the field of semiconductor nonlinear nanophotonics including fabrication characterization and modeling of semiconductor nanostructures in the optical regime with a focus on nonlinear effects Describes the research challenges in the field of optical metasurfaces in the nonlinear regime Reviews the use and achievements of all dielectric nanoantennas for strengthening the nonlinear optical response Describes both theoretical and experimental aspects of photonic devices based on semiconductor optical nanoantennas and metasurfaces Gathers contributions from several leading groups in this research field to provide a thorough and complete overview of the current state of the art in the field of semiconductor nonlinear nanophotonics Costantino De Angelis has been full professor of electromagnetic fields at the University of Brescia since 1998 He is an OSA Fellow and has been responsible for several university research contracts in the last 20 years within Europe the United States and Italy His technical interests are in optical antennas and nanophotonics He is the author of over 150 peer reviewed scientific journal articles Giuseppe Leo has been a full professor in physics at Paris Diderot University since 2004 and in charge of the nonlinear devices group of MPQ Laboratory since 2006 His research areas include nonlinear optics micro and nano photonics and optoelectronics with a focus on AlGaAs platform He has coordinated several research programs and coauthored 100 peer reviewed journal articles 200 conference papers 10 book chapters and also has four patents Dragomir Neshev is a professor in physics and the leader of the experimental photonics group in the Nonlinear Physics Centre at Australian National University ANU His activities span over several branches of optics including nonlinear periodic structures singular optics plasmonics and photonic metamaterials He has coauthored 200 publications in international peer reviewed scientific journals

Introduction to Combinatorial Testing D. Richard Kuhn,Raghu N. Kacker,Yu Lei,2016-04-19 Combinatorial testing of software analyzes interactions among variables using a very small number of tests This advanced approach has demonstrated success in providing strong low cost testing in real world situations Introduction to Combinatorial Testing presents a complete self contained tutorial on advanced combinatorial testing methods for re

Time in Quantum Mechanics - Vol. 2 Gonzalo Muga,Andreas Ruschhaupt,Adolfo del Campo,2010-01-13 But all the clocks in the city Began to whirr and chime O let not Time deceive you You cannot conquer Time W H Auden It is hard to think of a subject as rich complex and important as time From the practical point of view it governs and organizes our lives most of us are after all attached to a wrist watch or it helps us to wonderfully nd our way in unknown territory with the global positioning system GPS More generally it constitutes the heartbeat of modern technology Time is the most precisely measured quantity so the second de nes the meter or the volt

and yet nobody knows for sure what it is puzzling philosophers artists priests and scientists for centuries as one of the enduring enigmas of all cultures Indeed time is full of contrasts taken for granted in daily life it requires sophisticated experimental and theoretical treatments to be accurately produced We are trapped in its web and it actually kills us all but it also constitutes the stuff we need to progress and realize our objectives There is nothing more boring and monotonous than the tick tock of a clock but how many fascinating challenges have physicists met to realize that monotony Quite a number of Nobel Prize winners have been directly motivated by them or have contributed significantly to time measurement Issues in General Science and Scientific Theory and Method: 2012 Edition ,2013-01-10 Issues in General Science and Scientific Theory and Method 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about General Science The editors have built Issues in General Science and Scientific Theory and Method 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about General Science in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in General Science and Scientific Theory and Method 2012 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> Essentials of Nonlinear Optics Y. V. G. S. Murthi, C. Vijayan, 2014-07-02 Current literature on Nonlinear Optics varies widely in terms of content style and coverage of specific topics relative emphasis of areas and the depth of treatment While most of these books are excellent resources for the researchers there is a strong need for books appropriate for presenting the subject at the undergraduate or postgraduate levels in Universities The need for such a book to serve as a textbook at the level of the bachelors and masters courses was felt by the authors while teaching courses on nonlinear optics to students of both science and engineering during the past two decades This book has emerged from an attempt to address the requirement of presenting the subject at college level A one semester course covering the essentials can effectively be designed based on this *Introduction to Nanophotonics* Henri Benisty, Jean-Jacques Greffet, Philippe Lalanne, 2022 This book provides an introduction to nanophotonics a newly emerged and rapidly evolving field combining optics quantum physics material sciences and electrical engineering It illustrates the theoretical foundations as well as the major advances in the field based on artificial metallic and dielectric nanostructures **Nonlinear Optics and Photonics** Guangsheng He, 2015 This book provides a comprehensive presentation on most of the major topics in nonlinear optics and photonics with equal emphasis on principles experiments techniques and applications It covers many major new topics including optical solitons multi photon effects nonlinear photoelectric effects fast and slow light and Terahertz photonics Chapters 1-10 present the fundamentals of modern nonlinear optics and could be used as a textbook with problems provided

at the end of each chapter Chapters 11-17 cover the more advanced topics of techniques and applications of nonlinear optics and photonics serving as a highly informative reference for researchers and experts working in related areas There are also 16 pages of color photographs to illustrate the visual appearances of some typical nonlinear optical effects and phenomena The book could be adopted as a textbook for both undergraduates and graduate students and serve as a useful reference work for researchers and experts in the fields of physics quantum electronics and laser technology To request a copy of the Solutions Manual visit global.oup.com/uk/academic/physics/admin/solutions *Photonics, Volume 3* David L.

Andrews, 2015-03-23 Discusses the basic physical principles underlying the technology instrumentation of photonics This volume discusses photonics technology and instrumentation The topics discussed in this volume are Communication Networks Data Buffers Defense and Security Applications Detectors Fiber Optics and Amplifiers Green Photonics Instrumentation and Metrology Interferometers Light Harvesting Materials Logic Devices Optical Communications Remote Sensing Solar Energy Solid State Lighting Wavelength Conversion 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 **Nonlinearities in**

Periodic Structures and Metamaterials Cornelia Denz, Sergej Flach, Yuri S. Kivshar, 2010-03-11 Optical information processing of the future is associated with a new generation of compact nanoscale optical devices operating entirely with light Moreover adaptive features such as self-guiding reconfiguration and switching become more and more important Nonlinear devices offer an enormous potential for these applications Consequently innovative concepts for all optical communication and information technologies based on nonlinear effects in photonic crystal physics and nanoscale devices as metamaterials are of high interest This book focuses on nonlinear optical phenomena in periodic media such as photonic crystals optically induced adaptive lattices atomic lattices or metamaterials The main purpose is to describe and overview new physical phenomena that result from the interplay between nonlinearities and structural periodicities and is a guide to actual and future developments for the expert reader in optical information processing as well as in the physics of cold atoms in optical lattices **Plasmonics** Tatjana Gric, 2018-11-21 Plasmonics gives researchers in universities and industries and designers an overview of phenomena enabled by artificially designed metamaterials and their application for plasmonic devices The purpose of this book is to provide a detailed introduction to the basic modeling approaches and an overview of enabled innovative phenomena The main research agenda of this book is aimed at the study of modeling techniques and novel functionalities such as plasmonic enhancement of solar cell efficiency plasmonics in sensing etc The topics addressed in this book cover the major strands theory modeling and design applications in practical devices fabrication characterization

and measurement It is worthwhile mentioning that the strategic objectives of developing new artificial functional materials require close cooperation of the research in each subarea *Advanced Photonic Sciences* Mohamed Fadhali, 2012-03-21 The new emerging field of photonics has significantly attracted the interest of many societies professionals and researchers around the world The great importance of this field is due to its applicability and possible utilization in almost all scientific and industrial areas This book presents some advanced research topics in photonics It consists of 16 chapters organized into three sections Integrated Photonics Photonic Materials and Photonic Applications It can be said that this book is a good contribution for paving the way for further innovations in photonic technology The chapters have been written and reviewed by well experienced researchers in their fields In their contributions they demonstrated the most profound knowledge and expertise for interested individuals in this expanding field The book will be a good reference for experienced professionals academics and researchers as well as young researchers only starting their carrier in this field

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