MICRORING RESONATORS: FABRICATION AND APPLICATIONS IN SOLITON COMMUNICATIONS

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Microring resonators: fabrication and applications in soliton communications

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<u>Microring Resonators Fabrication Applications</u> <u>Communications</u>

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Microring Resonators Fabrication Applications Communications:

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 **Photonic Microresonator Research and** Applications Ioannis Chremmos,Otto Schwelb,Nikolaos Uzunoglu,2010-06-08 This book details how to design and fabricate microresonators It covers the latest in microresonator research and discusses them in photonic crystals microsphere circuits Simulation of Optical Soliton Control in Micro- and Nanoring and sensors It includes application oriented examples Resonator Systems Suzairi Daud, Sevia Mahdaliza Idrus, Jalil Ali, 2015-03-17 This book introduces optical soliton control in micro and nanoring resonator systems. It describes how the ring resonator systems can be optimized as optical tweezers for photodetection by controlling the input power ring radii and coupling coefficients of the systems Numerous arrangements and configurations of micro and nanoring resonator systems are explained The analytical formulation and optical transfer function for each model and the interaction of the optical signals in the systems are discussed This book shows that the models designed are able to control the dynamical behaviour of generated signals Microring Resonators A. Afroozeh, I. S. Amiri, A. Zeinalinezhad, Y. Farhang, 2015-12-03 This study starts with design considerations the functional behaviour and key characteristics of the microring resonator and add drop ring resonators allowing the performance of higher order filters For nonlinear materials the basic equations to describe the formation and propagation of different types of optical solitons are well known The resonance condition is satisfied when the circumference of the microring resonators or generally the round trip length is equal to an integer multiple of the optical wavelength inside the medium The chaotic behaviour of the multi output signals generated from these devices can be filtered using appropriate parameters Optical chaos is observed in many non linear optical systems One of the most common examples is a microring resonator Chaotic behaviour has been considered as a nonlinear property in physics electronics and communication Soliton is a self reinforcing solitary wave a wave packet or pulse that maintains its shape while it travels at constant speed Among all the types of solitons optical vector solitons draw the most attention due to their wide range of applications particularly in generating ultrafast pulses and light control technology Dark solitons are much less stable due to the cross interaction between the two polarization components The bus waveguides of the microring resonator are cladded by silica which serves both to improve modal con nement and facilitate wafer bonding for structural support The source of nonlinear reaction is related to harmonic motion of bound electrons under the influence of an applied field The total polarization P induced by electric dipoles is not linear in the electric field. The extent that the signal degrades depends on the purity of the glass and the wavelength of the transmitted light This refractive index variation is responsible for the nonlinear optical effects of self focusing self phase modulation and

modulation instability and is the basis for Kerr lens mode locking The quality factor of a resonator is a measure of the sharpness of the resonance Therefore the optimum fabrication process can be obtained with respect to higher quality factor of the device The phenomenon of optical bistability within the system arises from a combination of the nonlinearity in the radiation matter interaction and of a feedback mechanism Frequenzkonversion mittels chipintegrierter Flüstergalerieresonatoren aus Lithiumniobat Richard Wolf, 2018-12-11 Laserlichtguellen sind in einer Vielzahl optischer Technologien heute nicht mehr wegzudenken Grund hierf r ist die gute Fokussierbarkeit und definierte Wellenl nge welche durch Energie berg nge im Lasermedium definiert ist Dies ist jedoch auch eine Einschr nkung da Laserlicht somit nicht in jedem beliebigen Wellenl ngenbereich zur Verf gung steht bzw die Emissionswellenl nge von Laser meist nur ber einen geringen Bereich durchgestimmt werden kann Diese Einschr nkung l sst sich mit nichtlinear optischen Frequenzkonvertern beispielsweise aus Lithiumniobat LiNbO3 LN aufheben Die fr die nichtlinear optische Frequenzkonversion hohen Intensit ten lassen sich in Resonatoren erreichen Eine kompaktere Bauform stellen die Fl stergalerieresonatoren FGR dar Die Integration der FGR auf Chipebene ist hierbei von gro em Interesse da eine reproduzierbare und parallele Herstellung von sehr kleinen integrierten FGR iFGR mit Radien im 10 mikrometer Bereich m glich wird Au erdem besteht das Potential Pumplaser Detektoren und Heizelemente oder Elektroden zum Durchstimmen der Resonanzfrequenzen mit den iFGR auf einem Chip zu integrieren Diese Arbeit widmet sich einem neuartigen Herstellungsverfahren von dom nenstrukturierten iFGR mit dem G ten bis zu 10 Millionen erreicht werden Dank dieser hohen G ten konnte guasiphasenangepasste Frequenzkonversion in iFGR gezeigt werden Es wurde Frequenzverdopplung Summenfrequenzerzeugung und stimulierte Raman Streuung in den iFGR untersucht und somit das Potential der iFGR zur Realisierung kompakter Frequenzkonverter verdeutlicht Advances in Smart Communication Technology and Information Processing Soumen Banerjee, Jyotsna Kumar Mandal, 2021-02-15 This book is a collection of best selected research papers presented at the 6th International Conference on Opto Electronics and Applied Optics OPTRONIX 2020 organized by the University of Engineering Management Kolkata India in June 2020 The primary focus is to address issues and developments in optoelectronics with particular emphasis on communication technology IoT and intelligent systems information processing and its different kinds The theme of the book is in alignment with the theme of the conference Advances in Smart Communication Technology and Information Processing The purpose of this book is to inform the scientists and researchers of this field in India and abroad about the latest developments in the relevant field and to raise awareness among the academic fraternity to get them involved in different activities in the years ahead an effort to realize knowledge based society VLSI Micro- and Nanophotonics El-Hang Lee, Louay Eldada, Manijeh Razeghi, Chennupati Jagadish, 2018-09-03 Addressing the growing demand for larger capacity in information technology VLSI Micro and Nanophotonics Science Technology and Applications explores issues of science and

technology of micro nano scale photonics and integration for broad scale and chip scale Very Large Scale Integration

photonics This book is a game changer in the sense that it is quite possibly the first to focus on VLSI Photonics Very little effort has been made to develop integration technologies for micro nanoscale photonic devices and applications so this reference is an important and necessary early stage perspective on this field New demand for VLSI photonics brings into play various technological and scientific issues as well as evolutionary and revolutionary challenges all of which are discussed in this book These include topics such as miniaturization interconnection and integration of photonic devices at micron submicron and nanometer scales With its disruptive creativity and unparalleled coverage of the photonics revolution in information technology this book should greatly impact the future of micro nano photonics and IT as a whole It offers a comprehensive overview of the science and engineering of micro nanophotonics and photonic integration Many books on micro nanophotonics focus on understanding the properties of individual devices and their related characteristics However this book offers a full perspective from the point of view of integration covering all aspects of benefits and advantages of VLSI scale photonic integration the key technical concept in developing a platform to make individual devices and components useful and practical for various applications **Ring Resonator Systems to Perform Optical** Communication Enhancement Using Soliton Iraj Sadegh Amiri, Abdolkarim Afroozeh, 2014-08-27 The title explain new technique of secured and high capacity optical communication signals generation by using the micro and nano ring resonators. The pulses are known as soliton pulses which are more secured due to having the properties of chaotic and dark soliton signals with ultra short bandwidth They have high capacity due to the fact that ring resonators are able to generate pulses in the form of solitons in multiples and train form These pulses generated by ring resonators are suitable in optical communication due to use the compact and integrated rings system easy to control flexibility less loss application in long distance communication and many other advantages Using these pulses overcome the problems such as losses during the propagation long distances error detection using many repeaters or amplifiers undetectable received signals pulse broadening overlapping and so on This book show how to generate soliton pulses using ring resonators in the micro and nano range which can be used in optical communication to improve the transmission technique and quality of received signals in networks such as WiFi and wireless communication Advances in Computer, Communication and Control Utpal Biswas, Amit Banerjee, Sukhomay Pal, Arindam Biswas, Debashis Sarkar, Sandip Haldar, 2019-02-14 The book discusses the recent research trends in various sub domains of computing communication and control It includes research papers presented at the First International Conference on Emerging Trends in Engineering and Science Focusing on areas such as optimization techniques game theory supply chain green computing 5g networks Internet of Things social networks power electronics and robotics it is a useful resource for academics and researchers alike **Integrated Photonics for Data** Communication Applications Madeleine Glick, Ling Liao, Katharine Schmidtke, 2023-07-26 Integrated Photonics for Data Communications Applications reviews the key concepts design principles performance metrics and manufacturing processes

from advanced photonic devices to integrated photonic circuits The book presents an overview of the trends and commercial needs of data communication in data centers and high performance computing with contributions from end users presenting key performance indicators In addition the fundamental building blocks are reviewed along with the devices lasers modulators photodetectors and passive devices that are the individual elements that make up the photonic circuits These chapters include an overview of device structure and design principles and their impact on performance Following sections focus on putting these devices together to design and fabricate application specific photonic integrated circuits to meet performance requirements along with key areas and challenges critical to the commercial manufacturing of photonic integrated circuits and the supply chains being developed to support innovation and market integration are discussed This series is led by Dr Lionel Kimerling Executive at AIM Photonics Academy and Thomas Lord Professor of Materials Science and Engineering at MIT and Dr Sajan Saini Education Director at AIM Photonics Academy at MIT Each edited volume features thought leaders from academia and industry in the four application area fronts data communications high speed wireless smart sensing and imaging and addresses the latest advances Includes contributions from leading experts and end users across academia and industry working on the most exciting research directions of integrated photonics for data communications applications Provides an overview of data communication specific integrated photonics starting from fundamental building block devices to photonic integrated circuits to manufacturing tools and processes Presents key performance metrics design principles performance impact of manufacturing variations and operating conditions as well as pivotal performance benchmarks Semiconductor Wafer Bonding 10: Science, Technology, and Applications, 2008-10 This issue of ECS Transactions on Semiconductor Wafer Bonding will cover the state of the art R D results of the last 2 years in the field of semiconductor wafer bonding technology Wafer Bonding is an Enabling Technology that can be used to create novel composite materials systems and devices that would otherwise be unattainable Wafer Bonding today is rapidly expanding into new applications in such diverse fields as photonics sensors MEMS X ray optics non electronic microstructures high performance CMOS platforms for high end servers Si Ge strained SOI Germanium on Insulator GeOI Biological and Medical Sensor Technologies Krzysztof Iniewski, 2017-12-19 Biological and and Nanotechnologies Medical Sensor Technologies presents contributions from top experts who explore the development and implementation of sensors for various applications used in medicine and biology Edited by a pioneer in the area of advanced semiconductor materials the book is divided into two sections The first part covers sensors for biological applications Topics include Advanced sensing and communication in the biological world DNA derivative architectures for long wavelength bio sensing Label free silicon photonics Quartz crystal microbalance based biosensors Lab on chip technologies for cell sensing applications Enzyme biosensors Future directions for breath sensors Solid state gas sensors for clinical diagnosis The second part of the book deals with sensors for medical applications This section addresses Bio sensing and human behavior

measurements Sweat rate wearable sensors Various aspects of medical imaging The future of medical imaging Spatial and spectral resolution aspects of semiconductor detectors in medical imaging CMOS SSPM detectors CdTe detectors and their applications to gamma ray imaging Positron emission tomography PET Composed of contributions from some of the world s foremost experts in their respective fields this book covers a wide range of subjects It explores everything from sensors and communication systems found in nature to the latest advances in manmade sensors The end result is a useful collection of stimulating insights into the many exciting applications of sensor technologies in everyday life **Nanophotonics** Preecha Yupapin,2013-05-07 This book investigates the behavior of light light pulse within the micro and nano scale device ring resonator which can be integrated to form the device circuits and systems that can be used for atom molecule trapping and transportation optical transistor fast calculation devices optical gate nanoscale communication and networks and

Nanoscale Nonlinear PANDA Ring Resonator Preecha Yupapin, Chat Teeka, J. Ali, 2012-05-02 Microring nanoring resonator is an interesting device that has been widely studied and investigated by researchers from a variety of specializations This book begins with the basic background of linear and nonlinear ring resonators A novel design of nano device known as a PANDA ring resonator is proposed The use of the device in the form of a PA Optical Soliton Communication Using Ultra-Short Pulses Iraj Sadegh Amiri, Harith Ahmad, 2015-05-07 This brief analyzes the characteristics of a microring resonator MRR to perform communication using ultra short soliton pulses The raising of nonlinear refractive indices coupling coefficients and radius of the single microring resonator leads to decrease in input power and round trips wherein the bifurcation occurs As a result bifurcation or chaos behaviors are seen at lower input power of 44 W where the nonlinear refractive index is n2 3 2 10 20 m2 W Using a decimal convertor system these ultra short signals can be converted into quantum information Results show that multi solitons with FWHM and FSR of 10 pm and 600 pm can be generated respectively The multi optical soliton with FWHM and FSR of 325 pm and 880 nm can be incorporated with a time division multiple access TDMA system wherein the transportation of quantum information is performed Lithium Niobate Nanophotonics Ya Cheng, 2021-07-29 Photonic integrated circuit PIC technology holds great potential for breaking through the bottlenecks in current photonic and optoelectronic networks Recently a revolution has been witnessed in the field of lithium niobate LN photonics Over the past decade nanoscale LN waveguides with a propagation loss of 0 01 dB and a radius of curvature on the level of 100 m have been demonstrated The revolution mainly benefits from two technological advancements the maturity of lithium niobate on insulator LNOI technology and the innovation of nanofabrication approaches of high quality LNOI photonic structures Using low loss waveguides and high quality factor high Q microresonators produced on the LNOI platform as building blocks various integrated photonic devices have been demonstrated with unprecedented performances The breakthroughs have reshaped the landscape of the LN industry This is the first monograph on LN nanophotonics enabled by the LNOI platform It comprehensively reviews the development of

fabrication technology investigations on nonlinear optical processes and demonstrations of electro optical devices as well as applications in quantum light sources spectroscopy sensing and microwave to optical wave conversion. The book begins with an overview of the technological evolution of PICs justifying the motivation for developing LNOI photonics. The next four chapters focus on LNOI photonics The book concludes with a summary of the milestone achievements discussed in these chapters and provides a future perspective of this area of research **Advanced Photonic Structures for Biological and Chemical Detection** Xudong Fan, 2009-08-29 In my career I ve found that thinking outside the box works better if I know what s inside the box Dave Grusin composer and jazz musician Different people think in different time frames scientists think in decades engineers think in years and investors think in guarters Stan Williams Director of Quantum Science Research Hewlett Packard Laboratories Everything can be made smaller never mind physics Everything can be made more ef cient never mind thermodynamics Everything will be more expensive never mind common sense Tomas Hirschfeld pioneer of industrial spectroscopy Integrated Analytical Systems Series Editor Dr Radislav A Potyrailo GE Global Research Niskayuna NY The book series Integrated Analytical Systems offers the most recent advances in all key aspects of development and applications of modern instrumentation for che cal and biological analysis The key development aspects include i innovations in sample introduction through micro and nano uidic designs ii new types and methods of fabrication of physical transducers and ion detectors iii materials for sensors that became available due to the breakthroughs in biology combinatorial materials science and nanotechnology and iv innovative data processing and mining methodologies that provide dramatically reduced rates of false alarms Fibre Optic Communication Herbert Venghaus, Norbert Grote, 2017-01-20 The book gives an in depth description of key devices of current and next generation fibre optic communication networks Devices treated include semiconductor lasers optical amplifiers modulators wavelength filters and other passives detectors all optical switches but relevant properties of optical fibres and network aspects are included as well The presentations include the physical principles underlying the various devices technologies used for their realization typical performance characteristics and limitations but development trends towards more advanced components are also illustrated This new edition of a successful book was expanded and updated extensively The new edition covers among others lasers for optical communication optical switches hybrid integration monolithic integration and silicon photonics. The main focus is on Indium phosphide based structures but silicon photonics is included as well The book covers relevant principles state of the art implementations status of current research as well as expected future components **Photonics and Nanotechnology** Preecha Yupapin, 2008 Photonics and nanotechnology are popular emerging fields of technology This proceedings volume contains over 12 selected papers from the International Workshop and Conference on Photonics and Nanotechnology ICPN 2007 held in Pattaya Thailand from December 16 18 2007 The papers cover a wide range of topics from optical and nonlinear optical physics to nanoelectronics Optical Microresonators John Heebner, Rohit Grover, Tarek A. Ibrahim, 2008 Optical Micro

Resonators are an exciting new field of research that has gained prominence in the past few years due to the emergence of new fabrication technologies This book is the first detailed text on the theory fabrication and applications of optical micro resonators and will be found useful by both graduate students and researchers in the field

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