

SOLITON-BASED MICRORING RESONATORS: GENERATION AND APPLICATION IN OPTICAL COMMUNICATION



IRAJ S. AMIRI

Soliton Based Microring Resonators Application Communication

S Ben Porath



Soliton Based Microring Resonators Application Communication:

Simulation of Optical Soliton Control in Micro- and Nanoring 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.

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 a 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 $n_2 = 3.2 \times 10^{-20} \text{ m}^2/\text{W}$. 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.

Ring Resonator Systems to Perform Optical Communication Enhancement Using Soliton Iraj Sadegh Amiri, Abdolkarim Afroozeh, 2014-08-27 The title explains a 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 shows 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.

Soliton-based Microring Resonators Iraj S. Amiri, 2015-11-27 This book presents the recent developments in generation and application of optical communication pulses which have the properties of soliton.

Soliton Coding for Secured Optical Communication Link Iraj Sadegh Amiri, Sayed Ehsan Alavi, Sevia Mahdaliza Idrus, 2014-07-24 Nonlinear behavior of light such as chaos can be observed during propagation of a laser beam inside the microring resonator (MRR) systems. This Brief

highlights the design of a system of MRRs to generate a series of logic codes An optical soliton is used to generate an entangled photon The ultra short soliton pulses provide the required communication signals to generate a pair of polarization entangled photons required for quantum keys In the frequency domain MRRs can be used to generate optical millimetre wave solitons with a broadband frequency of 0 100 GHz The soliton signals are multiplexed and modulated with the logic codes to transmit the data via a network system The soliton carriers play critical roles to transmit the data via an optical communication link and provide many applications in secured optical communications Therefore transmission of data information can be performed via a communication network using soliton pulse carriers A system known as optical multiplexer can be used to increase the channel capacity and security of the signals

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

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

Integrated Micro-Ring Photonics Iraj Sadegh Amiri, Abdolkarim Afroozeh, Harith Ahmad, 2016-12-08 Micro ring resonators MRRs are employed to generate signals used for optical communication applications where they can be integrated in a single system These structures are ideal candidates for very large scale integrated VLSI photonic circuits since they provide a wide range of optical signal processing functions while being ultra compact Soliton pulses have sufficient stability for preservation of their shape and velocity Technological progress in fields such as tunable narrow band laser systems multiple transmission and MRR systems constitute a base for the development of new transmission techniques Controlling the speed of a light signal has many potential applications in fiber optic communication and quantum computing The slow light effect has many important applications and is a key technology for all optical networks such as optical signal processing Generation of slow light in MRRs is based on the nonlinear optical fibers Slow light can be generated within the micro ring devices which will be able to be used with the mobile telephone Therefore the message can be kept encrypted via quantum cryptography Thus perfect security in a mobile telephone network is plausible This research study involves both numerical experiments and theoretical work based on MRRs for secured communication

Optical Fiber Telecommunications VII Alan

Willner, 2019-10-18 With optical fiber telecommunications firmly entrenched in the global information infrastructure a key question for the future is how deeply will optical communications penetrate and complement other forms of communication e g wireless access on premises networks interconnects and satellites Optical Fiber Telecommunications the seventh edition of

the classic series that has chronicled the progress in the research and development of lightwave communications since 1979 examines present and future opportunities by presenting the latest advances on key topics such as Fiber and 5G wireless access networks Inter and intra data center communications Free space and quantum communication links Another key issue is the use of advanced photonics manufacturing and electronic signal processing to lower the cost of services and increase the system performance To address this the book covers Foundry and software capabilities for widespread user access to photonic integrated circuits Nano and microphotonic components Advanced and nonconventional data modulation formats The traditional emphasis of achieving higher data rates and longer transmission distances are also addressed through chapters on space division multiplexing undersea cable systems and efficient reconfigurable networking This book is intended as an ideal reference suitable for university and industry researchers graduate students optical systems implementers network operators managers and investors Quotes This book series which owes much of its distinguished history to the late Drs Kaminow and Li describes hot and growing applied topics which include long distance and wideband systems data centers 5G wireless networks foundry production of photonic integrated circuits quantum communications and AI deep learning These subjects will be highly beneficial for industrial R D engineers university teachers and students and funding agents in the business sector Prof Kenichi Iga President Retired Tokyo Institute of Technology With the passing of two luminaries Ivan Kaminow and Tingye Li I feared the loss of one of the premier reference books in the field Happily this new version comes to chronicle the current state of the art and is written by the next generation of leaders This is a must have reference book for anyone working in or trying to understand the field of optical fiber communications technology Dr Donald B Keck Vice President Corning Inc Retired This book is the seventh edition in the definitive series that was previously marshaled by the extraordinary Ivan Kaminow and Tingye Li both sadly no longer with us The series has charted the remarkable progress made in the field and over a billion kilometers of optical fiber currently snake across the globe carrying ever increasing Internet traffic Anyone wondering about how we will cope with this incredible growth must read this book Prof Sir David Payne Director Optoelectronics Research Centre University of Southampton

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