Integrated Micro-Ring Photonics: Principles and Applications as Slow Light Devices, Soliton Generation and Optical Transmission

This book presents theoretically and experimentally gained data on novel techniques in optical communication applications, signals transmission and multi-ring resonator passive systems used for secured and high capacity optical communication. The book introduces basic methods and solutions to generate optical communication signals in the soliton form. It presents a novel technique to generate optical solitons in nonlinear photonics semiconductor waveguides. These signals in the form of soliton are more effective for data transfer in a network system. The usage of micro-ring resonators as passive devices is discussed, introducing new integrated photonics devices, with a useful application in research fields of integrated photonics or undergraduate and master studies in photonics and engineering communication. Additionally, new techniques of data transmission are shown using stable optical signals as soliton pulses. This book focussed on readers and researchers in the field of nonlinear physics, Photonics, optics, engineering communication, signal processing and optical soliton communication. The waveguide fabrication and data analysis can be a main reference for those working on designing or characterization of the integrated photonics systems.

integrated micro-ring photonics: principles and applications as slow Principles and Applications as Slow Light Devices, Soliton Generation and Optical Transmission Iraj Sadegh Amiri, Abdolkarim Afroozeh, Harith Ahmad.

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