



Microring Resonators: Fabrication and Applications in Soliton Communications

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Createspace Independent Publishing Platform, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.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...



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