Radio over Fiber (RoF) Applications Using Soliton Generated by Optical Resonator

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A system of microring resonator (MRR) for wireless personal area networks (WPAN) indoor optical communication has been demonstrated. The optical soliton is generated by the laser pulse that propagates within an MRR system connected to an add/drop filter system. A high-frequency band of optical soliton pulses can be used in optical communication networks such as WPAN and IEEE 802.15.3c indoor systems, in which very high bit-rate connectivity can be provided. The loss of the transmission system can be compensated by using the multiple optical soliton frequency bands ranging between 57–61 GHz, where the receiver is provided at the end of the transmission link. Here, the single soliton pulses with FWHM in the range of MHz are generated, where the multi-soliton pulses have the same range of bandwidth. These pulses can be transmitted along the wired/wireless transmission link. Therefore, the WPAN indoor system, which presents short-distance optical communication, can be performed using the generated GHz band frequency optical soliton pulses. In this book we discuss about the different kinds of wireless systems, and the generated pulses compare with the used current waves. Related works of optical soliton signals have been reviewed. We investigate the result based on the chaotic signal generated within the nonlinear optical microring resonators.

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