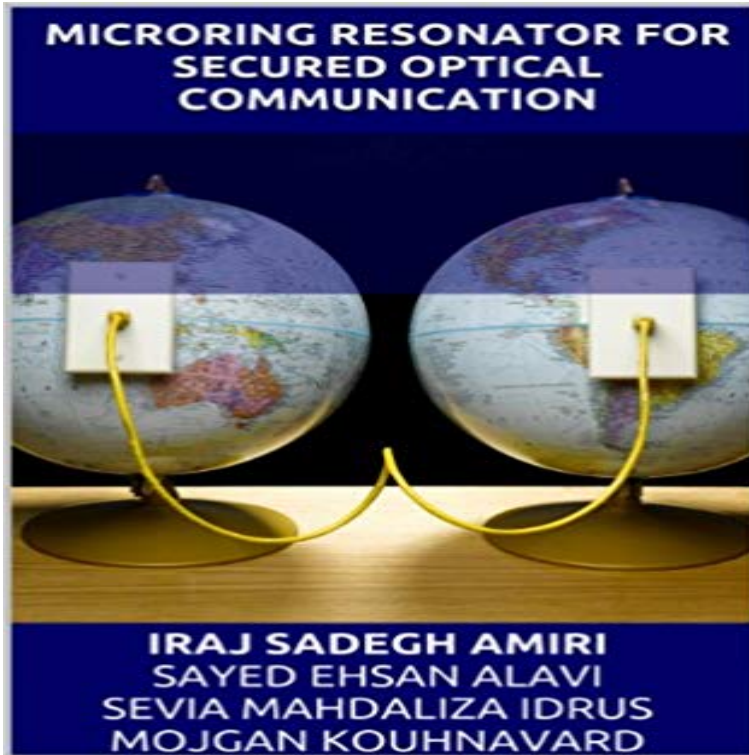


# MICRORING RESONATOR FOR SECURED OPTICAL COMMUNICATION



A novel system of dark soliton array (DSA) for secured communication generated by using the multiplexed dark soliton pulses is proposed. The multi soliton pulses with relevant parameters are input into the micro ring resonators system with the radii of 10  $\mu\text{m}$  and 5  $\mu\text{m}$ , where the dynamic dark solitons can be controlled and generated. The DSA are obtained by using a series micro ring resonators with parameters where in the wavelength range of  $\lambda_1$  is 1.56,  $\lambda_2$  is 1.58,  $\lambda_3$  is 1.60. For security applications, the DSA can be tuned and amplified. Thus, the use of DSA for high capacity which can be realized by using proposed secured system. In transmission, the long distance link of the multi variable network can be performed by this DSA.

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