

1. Record Nr.	UNINA9910464583703321
Titolo	Nanoscale nonlinear PANDA ring resonator / / Preecha P. Yupapin. [et al.]
Pubbl/distr/stampa	Enfield, N.H. : , : Science Publishers Boca Raton, Fla. : , : Distributed by CRC Press, , 2012
ISBN	0-429-08616-4 1-4398-9391-8
Descrizione fisica	1 online resource (310 p.)
Altri autori (Persone)	YupapinPreecha P
Disciplina	621.36/93
Soggetti	Integrated optics Optical resonance Resonators Nonlinear waves Nanoelectronics Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Front Cover; Preface; Contents; 1. Linear and Nonlinear Ring Resonators; 2. A PANDA Ring Resonator; 3. Dark-Bright Soliton Conversion; 4. Dynamic Optical Tweezers; 5. Hybrid Interferometer; 6. Hybrid Transceiver; 7. Nanocommunication; 8. Nanosensors; 9. Optical and Quantum Computing; 10. Drug Delivery; 11. Hybrid Transistor; 12. Electron-Hole Pair Manipulation
Sommario/riassunto	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 PANDA in applications such as nanoelectronics, measurement, communication, sensors, optical and quantum computing, drug delivery, hybrid transistor and a new concept of electron-hole pair is discussed in detail.

