

1. Record Nr.	UNINA9910456720903321
Titolo	Photonics & nanotechnology [[electronic resource]] : proceedings of the International Workshop and Conference on ICPN 2007, Pattaya, Thailand, 16-18 December, 2007 // edited by Preecha Yupapin, Prajak Saeung
Pubbl/distr/stampa	Singapore ; ; Hackensack, N.J., : World Scientific, c2008
ISBN	1-282-44079-9 9786612440793 981-277-972-8
Descrizione fisica	1 online resource (116 p.)
Altri autori (Persone)	SaeungP YupapinPreecha P
Disciplina	621.36 621.381542
Soggetti	Nanotechnology Photonics 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 and author index.
Nota di contenuto	Preface; CONTENTS; Capacitance-Voltage Characteristics of InN Quantum Dots in AlGaIn/GaN Heterostructure A. Asgari and M. Afshari Bavili; 1. Introduction; 2. Model Description; 3. Results and Discussion; 4. Conclusions; References; A Comparison of Different Coherent Deep Ultraviolet Generations Using Second Harmonic Generation with the Blue Laser Diode Excitation C. Tangtrongbenjasil and K. Konaka; 1. Introduction; 2. Theoretical Background; 3. Coherent Deep UV-C Generation Setups and Experimental Results; 3.1. SHG with Feedback Grating as a Wavelength Selector Configuration 3.2. SHG with Transmission Grating as a Wavelength Selector Configuration 3.3. Symmetry SH Detection Configuration with Multimode Blue LD; 4. Discussion; 5. Conclusions; Acknowledgment; References; Application of Reflection-Spectrum Envelope for Sampled Gratings X. He, D.N. Wang, D. Huang and Y. Yu; 1. Introduction; 2. Analytical Expression of Reflection-spectrum Envelope; 2.1. Theory;

2.2. Reflection-spectrum Envelope of Conventional Sampled Grating; 3. Application of Reflection-spectrum Envelope; 4. Conclusion; Acknowledgments; References

Temperature-Dependent Photoluminescence Investigation of Narrow Well-Width InGaAs/InP Single Quantum Well W. Pecharapa, W. Techitdheera, P. Thanomngam and J. Nukeaw1. Introduction; 2. Methodology; 3. Results and Discussion; 4. Conclusions; Acknowledgements; References; Shooting Method Calculation of Temperature Dependence of Transition Energy for Quantum Well Structure B. Jukgoljun, W. Pecharapa and W. Techitdheera; 1. Introduction; 2. Quantum Well Structure and Temperature Dependence; 3. The Ground State Energy Calculation by Shooting Method; 3.1. Calculation in Conduction Band

3.2. Calculation in Valence Band and Transition Energy4. Result and Discussion; References; Design of Optical Ring Resonator Filters for WDM Applications P. Saeung and P.P. Yupapin; 1. Introduction; 2. Optical Filter Designs and Z-transform; 2.1. A Single Stage MA Optical Filter; 2.2. A Single Stage AR Optical Filter; 2.3. A Single Stage ARMA Optical Filter; 3. Results and Discussion; 4. Conclusions; References; Chaotic Signal Filtering Device Using the Series Waveguide Micro Ring Resonator P.P. Yupapin, W. Suwancharoen, S. Chaiyasoonthorn and S. Thongmee; 1. Introduction

2. Chaotic Generation3. Numerical Simulation; 4. Results; 5. Conclusion; Acknowledgments; References; An Alternative Optical Switch Using Mach Zehnder Interferometer and Two Ring Resonators P. P. Yupapin, P. Saeung and P. Chunpang; 1. Introduction; 2. Nonlinearity Phase Response of Fiber Ring Resonator; 3. Experimental Results; 4. Discussion and Conclusion; References; Entangled Photons Generation and Regeneration Using a Nonlinear Fiber Ring Resonator S. Suchat, W. Khunnam and P.P. Yupapin; 1. Introduction; 2. Operating Principles; 3. Experiment and Results; 4. Conclusion; Acknowledgments

References

Sommario/riassunto

Photonics and nanotechnology are popular emerging fields of technology. This proceedings volume contains over 12 selected papers from the International Workshop and Conference on Photonics and Nanotechnology (ICPN) 2007, held in Pattaya, Thailand, from December 16-18, 2007. The papers cover a wide range of topics, from optical and nonlinear optical physics to nanoelectronics.
