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| 1. Record Nr. | UNINA9910828918703321 |
| Titolo | Nonlinear optical systems : principles, phenomena, and advanced signal processing // edited by Le Nguyen Binh and Dang Van Liet |
| Pubbl/distr/stampa | Boca Raton, FL : , : CRC Press, an imprint of Taylor and Francis, , 2012 |
| ISBN | 0-429-08801-9 1-138-07276-1 1-4665-5612-9 1-4398-4547-6 1-4665-5496-7 |
| Edizione | [1st edition] |
| Descrizione fisica | 1 online resource (447 p.) |
| Collana | Optics and Photonics |
| Disciplina | 621.36/94 |
| Soggetti | Nonlinear optics Photonics Wave-motion, Theory of Light - Transmission |
| 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; Contents; Preface; Contributors; Chapter 1: Introduction; Chapter 2: Nonlinear Systems and Mathematical Representations; Chapter 3: Soliton Fiber Lasers; Chapter 4: Multibound Solitons; Chapter 5: Transmission of Multibound Solitons; Chapter 6: Deterministic Dynamics of Solitons in Passive Mode-Locked Fiber Lasers; Chapter 7: Bistability, Bifurcation, and Chaos in Nonlinear Loop Fiber Lasers; Chapter 8: Nonlinear Fiber Ring Lasers; Chapter 9: Nonlinear Photonic Signal Processing Using Third-Order Nonlinearity Chapter 10: Volterra Series Transfer Function in Optical Transmission and Nonlinear Compensation Appendix A: Derivation of the Generalized Nonlinear Schrodinger Equation; Appendix B: Calculation Procedures of Triple Correlation, Bispectrum, and Examples; Appendix C: Simulink® Models; Back Cover |
| Sommario/riassunto | Nonlinear Optical Systems: Principles, Phenomena, and Advanced Signal Processing is a simplified overview of the evolution of technology associated with nonlinear systems and advanced signal processing. |

This book's coverage ranges from fundamentals to phenomena to the most cutting-edge aspects of systems for next-generation biomedical monitoring and nonlinear optical transmission.
