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| Titolo                  | Nonlinear optical systems : principles, phenomena, and advanced signal processing // edited by Le Nguyen Binh and Dang Van Liet   |
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| ISBN                    | 0-429-08801-9<br>1-138-07276-1<br>1-4665-5612-9<br>1-4398-4547-6<br>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<br>Photonics<br>Wave-motion, Theory of<br>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.

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