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Nota di contenuto	Smart & Adaptive Optics; Preface and Committees; Table of Contents; Chapter 1: Nanophotonics; Gas Cluster Ion Beam Technology for Nano-Fabrication; Passive and Active Nanophotonics; Chapter 2: Active Optical Materials and Devices; White Light Generation in Rare-Earth-Doped Amorphous Films Produced by Ultrasonic Spray Pyrolysis; Hybrid Organic-Inorganic Photodriven Nanoimpellers for Drug Release; PLZT: Nd ³⁺ Ceramics for Photonic Applications; Development of Field-Controlled Smart Optic Materials (ScN, AlN) with Rare Earth Dopants Multimodal, High-Resolution Imaging System Based on Stimuli-Responsive Polymers Electric Field Dependence of Molecular Orientation and Anisotropic Magnetic Interactions in the Ferroelectric Liquid Crystalline Phase of an Organic Radical Compound by EPR Spectroscopy; Whispering Gallery Mode Microresonators for Biosensing; Chapter 3: Adaptive Optics; Intelligent Optical Systems Using Adaptive Optics; Adaptive Optical Systems in Russian Federal Nuclear Center - VNIIEF with Different Control Principles; Peculiarities of Adaptive Laser Location of Debris with Rough Surface; Keywords Index

Sommario/riassunto

The 12 peer-reviewed papers collected here together offer a plenitude of up-to-date information on "Smart & Adaptive Optics". The papers are conveniently arranged into: Chapter 1: Nano-photonics, Chapter 2: Active Optical Materials and Devices, Chapter 3: Adaptive Optics. Review from Book News Inc.: The 12 papers in this collection were presented at the Smart and Adaptive Optics symposium of the CIMTEC 2012 Fourth International Conference on Smart Materials, Structures, and Systems held in Montecatini Terme, Italy in June 2012. The three general topics are nanophotonics, active optical mater