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Soggetti	Nanotechnology Biomaterials Biophysics Nanoscience Biomedical engineering Nanoengineering Biomedical Materials Nanoscale Biophysics Biomedical Devices and Instrumentation
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Note generali	Includes index.
Nota di contenuto	3D-Printed Sensor Array of Semiconducting Oxides -- Broad-band Spectroscopy of Nanoconfined Water Molecules -- Superconductivity and Weak Ferromagnetism in Inclination Bicrystal Interfaces of Bismuth and Antimony -- Unusual Size Dependence of Acoustic Properties in Layered Nanostructures -- Features of Radiative Recombination of Iron-doped Gallium Antimonide -- Change in Microstructure and Magnetic Properties of Transition Metal Nitride Thin Films by Substrate Temperature -- Structural and Photoluminescence Properties of Nanoparticles Formed by Laser Ablation of Porous Silicon in Ethanol and Liquid Nitrogen -- Quantum Interferences with Equidistant Three-level Quantum Wells -- Surface Modification of PVDF Copolymer

Nanofiber by Chitosan/Ag(NP)/Nanosilica Composite -- Silanized Citric Acid Capped Magnetic Nanoparticles and Influence on Chlorophyll -- Hydrogels Based on Collagen and Dextran for Bioartificial Tissues.

Sommario/riassunto

This book gathers the proceedings of the 5th International Conference on Nanotechnologies and Biomedical Engineering, held online on November 3–5, 2021, from Chisinau, Republic of Moldova. It covers fundamental and applied research at the interface between nanotechnologies and biomedical engineering. Chapters report on cutting-edge bio-micro/nanotechnologies, devices for biomedical applications, and advances in bio-imaging and biomedical signal processing, innovative nano-biomaterials as well as advances in e-health, medical robotics, and related topics. With a good balance of theory and practice, the book offers a timely snapshot of multidisciplinary research at the interface between physics, chemistry, biomedicine, materials science, and engineering.