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Nota di contenuto	1.Changes in the Spectrum of Acoustic Emission Signal in the Material Fiberglass under the Influence of Tensile Stresse -- 2.Physical Method for Determining the Parameters of a Hydraulically Satisfactory Reliable Cross-Section of Main Channels -- 3.Physical Principles of using New Promising Materials and Technologies for Environmentally Friendly and Safe Nuclear Power Reactors -- 4.Impact Toughness and Tensile Strength Tests of AISi10Mg Alloy Specimens after Selective Laser Melting -- 5.Physicochemical Preparation for Fabrication and Characterization of Gold Nanoparticles for Antibacterial Activity Study.- + 6.Application of the Metaheuristic Algorithms of Global Optimization

for Determination of the Composite Materials Constituent's Properties -- 7. Physical Principles of Wastewater Heat Utilization Using High-Temperature Solar Installations -- 8. Local Sodium Carboxymethyl Cellulose: Physicochemical Characteristics and Their Significance -- 9. A New Approach to the Analysis of Nuclear Reactions under the Influence of High-Energy Particles on a Stationary Target Nucleus in the Physics of Resonant Nuclear Reactions -- 10. Some Questions of Thermonuclear Fusion Physics: the New Mechanism of the 2H-3H Reaction -- 11. Research of the Physical Basis of Heat Transfer in Heat Exchanger Devices -- 12. Mathematical Modeling of the Phenomenon of Electrical Conductivity of a Lithium-Ion Battery with a Large Capacity.

Sommario/riassunto

This book discusses issues of physics, materials science and new materials that are being developed by scientists from different countries of world. The IV International Scientific and Practical Symposium "Materials Science and Physics" were held on December 23–25, 2024. The symposium covered issues of physics, materials science and new materials. A distinctive feature of the conference is that it featured presentations by authors from the People's Republic of China, the Sultanate of Oman, the Republic of Azerbaijan, the Russian Federation and the Republic of Uzbekistan. The symposium allowed all participants to exchange experiences and gain new knowledge. The results of the symposium is useful for state and regional authorities for the development of industry and new areas of activity, international and supranational organizations, the scientific and professional community.
