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temperature and pressure ranges or in aggressive media The developed devices show improved characteristics due to the use of advanced materials and composites opening new horizons in the investigation of a variety of physical and mechanical processes and phenomena Advanced Materials Ivan A. Parinov, Shun-Hsyung Chang, Vijay K. Gupta, 2018-05-12 This book presents selected peer reviewed contributions from the 2017 International Conference on Physics and Mechanics of New Materials and Their Applications PHENMA 2017 Jabalpur India 14 16 October 2017 which is devoted to processing techniques physics mechanics and applications of advanced materials The book focuses on a wide spectrum of nanostructures ferroelectric crystals materials and composites as well as promising materials with special properties It presents nanotechnology approaches modern environmentally friendly piezoelectric and ferromagnetic techniques and physical and mechanical studies of the structural and physical mechanical properties of materials Various original mathematical and numerical methods are applied to the solution of different technological mechanical and physical problems that are interesting from theoretical modeling and experimental points of view Further the book highlights novel devices with high accuracy longevity and extended capabilities to operate under wide temperature and pressure ranges and aggressive media which show improved characteristics thanks to the developed materials and composites opening new possibilities for different physico mechanical processes and phenomena Advanced Materials Ivan A. Parinov, Shun-Hsyung Chang, Muaffaq A. Jani, 2017-08-04 This book presents 50 selected peer reviewed reports from the 2016 International Conference on Physics and Mechanics of New Materials and Their Applications PHENMA 2016 Surabaya Indonesia 19 22 July 2016 The Proceedings are devoted to processing techniques physics mechanics and applications of advanced materials As such they examine a wide spectrum of nanostructures ferroelectric crystals materials and composites as well as other promising materials with special properties They present nanotechnology approaches modern environmentally friendly piezoelectric and ferromagnetic techniques and physical and mechanical studies of the structural and physical mechanical properties of the materials discussed Further a broad range of original mathematical and numerical methods is applied to solve various technological mechanical and physical problems which are interesting for applications Great attention is devoted to novel devices with high accuracy longevity and extended possibilities to work in wide temperature and pressure ranges aggressive media etc which show improved characteristics defined by the developed materials and composites opening new possibilities to study different physico mechanical processes and phenomena Physics and Mechanics of New Materials and Their Applications Ivan A. Parinov, Shun-Hsyung Chang, Yun-Hae Kim, Nao-Aki Noda, 2021-08-10 This book presents selected peer reviewed contributions from the 2020 International Conference on Physics and Mechanics of New Materials and Their Applications PHENMA 2020 26 29 March 2021 Kitakyushu Japan focusing on processing techniques physics mechanics and applications of advanced materials The book describes a broad spectrum of promising nanostructures crystal structures materials and composites with unique properties It presents nanotechnological design approaches

environmental friendly processing techniques and physicochemical as well as mechanical studies of advanced materials The selected contributions describe recent progress in computational materials science methods and algorithms in particular finite element and finite difference modelling applied to various technological mechanical and physical problems The presented results are important for ongoing efforts concerning the theory modelling and testing of advanced materials Other results are devoted to promising devices with higher accuracy increased longevity and greater potential to work effectively under critical temperatures high pressure and in aggressive environments **Advanced Materials** Ivan A.

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Vladimirovich Bondarev, 2022-03-29 **Density Matrix Theories in Quantum Physics** Boris V. Bondarev, 2020-11-03 In **Density Matrix Theories in Quantum Physics** the author explores new possibilities for the main quantities in quantum physics the statistical operator and the density matrix The starting point in this exploration is the Lindblad equation for the statistical operator where the main element of influence on a system by its environment is the dissipative operator Bondarev has developed the theory of the harmonic oscillator in which he finds the density matrix and proves the Heisenberg relation Bondarev has written the dissipative diffusion and attenuation operators and proven the equivalence of the Wigner and Fokker Planck equations using them He further develops theories of the light emitting diode and ball lightning Bondarev also derives equations for the density matrix of a single particle and a system of identical particles These equations have a remarkable property when the density matrix has a diagonal shape they turn into a quantum kinetic equation for probability Additional chapters in the book present new theories of experimentally discovered phenomena such as the step kinetics of bimolecular reactions in solids superconductivity superfluidity the energy spectrum of an arbitrary atom lasers spasers and

graphene Density Matrix Theories in Quantum Physics is an informative reference for theoretical physicists interested in new theories on the subject of complex physical phenomena quantum theory and density matrices

Advanced Ferroelectric And Piezoelectric Materials: With Improved Properties And Their Applications Ivan A Parinov, Sergey V Zubkov, Valery A Chebanenko, Alexander S Skaliukh, Alexander V Cherpakov, Yuri E Drobotov, 2024-03-14 Discover the latest advances in ferroelectric and piezoelectric material sciences with this comprehensive monograph divided into six chapters each offering unique insights into the field Chapter 1 delves into the manufacture and study of new ceramic materials focusing on complex oxides of various metals Aurivillius phases The authors explore layered bismuth titanates and niobates known for their high Curie temperature and discuss how varying their chemical composition can lead to significant changes in their electrophysical properties Chapter 2 explores the fascinating world of ferroelectrics dielectrics with spontaneous polarization Mathematical models and approaches of fractional calculus are used to understand the process of polarization switching in these materials shedding light on the fractality of electrical responses In Chapter 3 readers gain valuable insights into the inhomogeneous polarization process of polycrystalline ferroelectrics a crucial stage in creating piezoceramic samples for energy converters The authors present a comprehensive mathematical model that allows the determination of various characteristics including dielectric and piezoelectric hysteresis loops and the effect of attenuation processes Chapter 4 focuses on state of the art piezoelectric energy harvesting discussing theoretical experimental and computer modelling approaches The authors discuss piezoelectric generators PEGs of different types cantilever stack and axis and nonlinear effects arising at their operation Chapter 5 presents expanded test and finite element models for cantilever type and axial type PEGs with active elements The studies cover various structural and electric schemes of the PEGs with proof mass bimorph and cylindrical piezoelectric elements and excitation loads Finally Chapter 6 reviews some results in the last five years obtained in modelling the vibration of devices from piezoactive materials including five important effects piezoelectric flexoelectric pyroelectric piezomagnetic and flexomagnetic As a diverse addition to the literature this book is a relevant resource for researchers engineers and students seeking to expand their knowledge of cutting edge developments in this exciting field

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Physics and Mechanics of New Materials and Their Applications Ivan A. Parinov, Shun-Hsyung Chang, Arkady N. Soloviev, 2023-01-28 This book presents 50 selected peer reviewed contributions from the 10th Anniversary International Conference on Physics and Mechanics of New Materials and Their Applications PHENMA 2021 2022 23 27 May 2022 Divnomorsk Russia focusing on processing techniques physics mechanics and applications of advanced materials The book describes a broad spectrum of promising nanostructures crystal structures materials and composites with unique properties It presents nanotechnological design approaches environmental friendly processing techniques and

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Ivan A. Parinov,Shun-Hsyung Chang,Nagendra Sohani,Vijay Kumar Gupta,2025-06-07 The book provides new results of internationally recognized scientific teams in the fields of Materials Science Physics Mechanics Fabrication Techniques and Technologies of Advanced Materials operating in wide scaling from nanometer to macroscopic range The developed theoretical and experiment approaches cover prospective manufacture methods of nanomaterials ferroelectrics piezoelectrics environmentally friendly and other advanced materials and composites The book discusses fabrication techniques physics mechanics and applications of promising materials and composites It presents numerous results of theoretical and experimental studies of novel materials and devices with beforehand given and improved structure sensitive properties based on the methods of biology inorganic and organic chemistry magnetoelectric elasticity physics of condensed matter and

material science Thus the book allows one to better understand the modern requirements for advanced materials and composites The results obtained also include computational algorithms and original hard and software used in realization of numerical methods in particular finite element modeling demonstrating fascinating new advancements for wide spectrum of novel materials which could be obtained due to reprocessing or using natural materials wastes fruits and plants and devices The advanced materials with specific properties and novel devices based on them show higher and improved properties in comparison with the properties of the competitive publications In the result it gives a new knowledge which is necessary for numerous applications and subsequent development of industry and the methods of management and marketing The original theoretical numerical and experiment methods manufactured devices and set ups demonstrate significant possibilities in expanding the research of various physical processes and phenomena They provide different improvements in the study of numerous structure sensitive characteristics of solids and structures The book will be useful for students post graduate students scientists and engineers which research and develop a new generation of nanomaterials and nanocomposites ferroelectric and piezoelectric materials other promising structures and compositions with structure sensitive properties and various devices designed on their base and used in different applications of science technique and technology Moreover it will be very interesting for specialists working in industry management and marketing The book is important for unification and development of various expertise designs and studies It presents new research methods and scientific results in the Condensed Matter Physics Materials Science Physical and Mechanical Experiment Processing Techniques and Engineering of Nanomaterials Piezoelectrics and other Advanced Materials and Composites Computational Methods numerous applications and developed devices

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