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COMPOUNDS
AND ITS INFLUENCE ON THEIR
PHYSICAL
PROPERTIES

Edited by Yu. M. Popov

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Albert Reimer

Stoichiometry in Crystal Compounds and Its Influence on Their Physical Properties Inun. M. Popov, 1988 CIP lists title as Stoichiometry and its influence on the physical properties of crystalline compounds The papers cover investigations of A 2 B 6 and A 4 B 6 crystal compounds and certain A 3B 5 compound heterostructures Annotation copyright Book News Inc Stoichiometry in Crystal Compounds and Its Influence on Their Physical Properties ,1988 **Physics 2002** Thomas F. George, Henk F. Arnoldus, 2002 This book provides a representative sampling of the latest advances in theoretical physics Chapters 1 and 2 deal with the Hydrogen atom In Chapter 1 Blaive and Cadilhac carry out an analysis of hydrogenoid atomic wave functions In Chapter 2 Boudet Blaive Genives and Vanel carry out a relativistic calculation with retardation of the photoelectric effect of Hydrogen Chapters 3 and 4 look at atoms in the presence of an external radiation field Chapter 3 by Dastidar and Dastidar examines above threshold ionisation of Argon in a laser field In Chapter 4 Kazakov applies the Jaynes Cummings model to an atom interacting simultaneously with a quasiresonant classical field and a quantised mode Quantum dynamical problems are addressed in Chapters 5 and 6 In Chapter 5 Baute Egusquiza and Muga study the effect of negative and classically forbidden momenta in one dimensional quantum scattering Chapter 6 by Bellini finds analytical solutions to reaction diffusion equations by mapping on a time independent Schr dinger equation Chapters 7 and 8 are devoted to nuclear and particle physics In Chapter 7 Kravchenko and Soznik obtain the nucleon nucleus optical potential in the nuclear matter approximation with the generalised Skyrme interaction In Chapter 8 Terasaki examines non factorisable contributions in decays The final three chapters contain various mathematical studies which are of interest to theoretical physics in general In Chapter 9 Shiging analyses the equations of motion for the Newtonian n body problem Riazi looks at the geometry and topology of solitons in Chapter 10 and the book concludes with Chapter 11 containing a study by Elipe of the rotations of perturbed triaxial rigid bodies Models and Methods of High-Tc Superconductivity J. K. Srivastava, Sadasiva Madiraju Rao, 2003 The articles in this exceptional book contain regular papers extended papers and reviews and thus vary in length and are useful for all kinds of audience They describe as the book s name suggests HTSC models and methodologies Physical models like extended BCS model bipolaron model spin bag model RVB resonating valence bond model preformed Cooper pairs and antiferromagnetic spin fluctuation AFSF based models stripe phase paired cluster spin glass SG frustration based model Kamimura Suwa Hund's coupling mechanism based model electron plasmon interaction electron phonon interaction etc theoretical methods methodologies like generalised BCS Migdal Eliashberg theory Hubbard model t I model t t U model Hubbard Holstein model Fermi non Fermi and marginal Fermi liquid concepts generalised Hartree Fock formalism etc and experimental status and methodologies are all described there For comparison with cuprates fullerenes ruthenates organic non Cu containing oxide and conventional elemental A15 superconductors molecular crystals nickelates manganites borides etc are also discussed **Self Focusing of Relativistic Electron**

Bunches in Plasma Valery B. Krasovitskii, 2008 This volume presents the non linear theory of electrostatic focusing of an electron beam split into bunches under conditions when the plasma permittivity at the modulation frequency is negative and the effective Coulomb force acting on the electron bunches is reversed Conditions for the spatial equilibrium between the bunch and plasma emission as well as the dynamics of the formation of focussed bunches are confirmed by solving both analytically and numerically the self consistent set of equations **Interaction of Ions with Condensed Matter** Arvaidas Galdikas,Li∏u∏dvikas Prani∏a∏vichi∏u∏s,2000 Interactions of Ions with Condensed Matter Volume 229 Theoretical Physics Henk F. Arnoldus, Thomas F. George, 2007 Although the various branches of physics differ in their experimental methods and theoretical approaches certain general principles apply to all of them The forefront of contemporary advances in physics lies in the submicroscopic regime whether it be in atomic nuclear condensed matter plasma or particle physics or in quantum optics or even in the study of stellar structure All are based upon quantum theory i e quantum mechanics and quantum field theory and relativity which together form the theoretical foundations of modern physics Many physical quantities whose classical counterparts vary continuously over a range of possible values are in quantum theory constrained to have discontinuous or discrete values The intrinsically deterministic character of classical physics is replaced in quantum theory by intrinsic uncertainty According to quantum theory electromagnetic radiation does not always consist of continuous waves instead it must be viewed under some circumstances as a collection of particle like photons the energy and momentum of each being directly proportional to its frequency or inversely proportional to its wavelength the photons still possessing some wavelike characteristics This book presents state of the art research from **Chemical Physics Research Trends** Samuel V. Arnold, 2007 Chemical physics and physical chemistry around the world are closely related fields of study Together they are distinguished from other disciplines by the incredible range of problems addressed by their practitioners An effective physical chemist or chemical physicist is a jack of all trades able to apply the principles and techniques of the field to everything from high tech materials to biology Just as the fields of chemistry and physics have expanded so have chemical physics subject areas which include polymers materials surfaces interfaces and biological macromolecules along with the traditional small molecule and condensed phase systems This book gathers New Developments in Quantum Cosmology Research Albert Reimer, 2005 important research from around the world Horizons in World Physics Volume 247 New Developments in Quantum Cosmology Research The Muon Method in **Science** Vol'demar Smilga,1994 Muon Method in Science Instabilities of Relativistic Electron Beam in Plasma Valery B. Krasovitskii, 2008 This book is devoted to the non linear theory of the collective interaction between a modulated beam of relativistic charged particles and narrow electromagnetic and Langmuir wave packets in plasma or gas slow wave systems Regular oscillations excited by a relativistic beam under the conditions of Cherenkov resonance and the anomalous Doppler effect can be used to generate coherent microwave radiation and accelerate charged particles in plasma Quantum

Gravity Research Trends Albert Reimer, 2006 Quantum Gravity Research Trends General Relativity Research Trends Spacetime Physics Research Trends Albert Reimer.2005 Albert Reimer, 2006 General Relativity Research Trends Spacetime Physics Research Trends **Quantum Cosmology Research Trends** Albert Reimer, 2005 Quantum Dots Peter A. Ling, 2005 A quantum dot is a particle of matter so small that the addition Physics [part A], 1994 or removal of an electron changes its properties in some useful way All atoms are quantum dots but multi molecular combinations can have this characteristic In biochemistry quantum dots are called redox groups In nanotechnology they are called quantum bits or qubits Quantum dots typically have dimensions measured in nanometers where one nanometer is 10 9 meter or a millionth of a millimetre The fields of biology chemistry computer science and electronics are all of interest to researchers in nanotechnology Other applications of quantum dots include nanomachines neural networks and high density memory or storage media Research is being carried out on nano crystals self assembled dots and gated structures This book presents leading edge research from around the world Horizons in World Physics Albert Reimer, 2004 This volume presents leading edge research in physics from researchers around the world Contents Preface Interface Localised Mode in Bilayer Film Ferromagnetic Resonance Spectrum On Similarity Waves in Compacting Media Generalised Relativistic Dynamics of Charged Particle Deviatoric Elasticity as a Mechanism describing Stable Shapes of Nanotubes A Thermodynamic Approach for Predicting Micelle and Asphaltene Micelle Formation Asymptotic Theories for the Non linear Analysis of Axisymmetric Laminated Cylindrical Shells Statistical Dynamics of Energy Transfer in Direct Inelastic Gas Surface Scattering within Dynamical Lie Algebraic Method Topologically Charged Vortex in a Supersymmetric Kalb Ramond Theory The Effect of Fibre Curvature on Suspension Viscosity Measurements of Reaction Cross Sections and Determination of Nucleon Matter Density Distributions Index Astrophysics and Condensed Matter Thomas G. Hardwell, 2008 This book presents the latest research in two leading areas of physics astrophysics and condensed matter Horizons in World Physics Tori V. Lynch, 2004 This volume presents leading edge research in physics from researchers around the world

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