

Nonlinear Dynamics

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Nonlinear Waves 1

Dynamics and Evolution

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forthcoming schools The first volume starts with a historical overview of nonlinear dynamics from Poincaré to the present day and touches topics like attractors nonlinear oscillators and waves turbulence pattern formation and dynamics of structures in nonequilibrium dissipative media It then deals with structures bistabilities instabilities chaos dynamics of defects in 1d systems self organizations solitons spatio temporal structures and wave collapse in optical systems lasers plasmas reaction diffusion systems and solids

Nuclear Physics at the Borderlines Jose M. Arias, Maria I. Gallardo, Manuel Lozano, 2012-12-06 This volume contains the lectures presented by invited speakers at the IV La Rilibida International Summer School on Nuclear Physics This was the IV edition of a summer school organized by our group every three years on topics related to nuclear physics This Summer School was aimed mainly at young nuclear physicists both theoreticians and experimentalists engaged in research work at predoctoral or recent postdoctoral level The topics treated in the three previous editions of the School were Heavy Ion Collisions Theory of Nuclear Structure and Reactions and Nuclear Astrophysics This year's School was entitled Nuclear Physics at the Borderlines Special emphasis was placed on those topics along which nuclear physics is expected to develop in the next few years The aim of the School was to provide the attendants with an opportunity to get into close contact with experienced researchers and listen to their account of the present state of the art in nuclear physics and the main future lines of development

High-Tc Superconductivity Aleksandr S. Davydov, Vadim M. Loktev, 2012-12-06 High Tc Superconductivity is based on a meeting held in Kiev and contains contributions discussing the most recent achievements in this field The book includes reviews and original papers covering theoretical and experimental aspects of the subject Keywords electronic and magnetic properties metallization processes emission and optic spectra levitation pinning frustration and fluctuations thin films

Electron-Electron Correlation Effects in Low-Dimensional Conductors and Superconductors Alexandr A. Ovchinnikov, Ivan I. Ukrainskii, 2012-12-06 Advances in the physics and chemistry of low dimensional systems have been really magnificent in the last few decades Hundreds of quasi one dimensional and quasi two dimensional systems have been synthesized and studied The most popular representatives of quasi one dimensional materials are polyacetylenes CH₁ and conducting donor acceptor molecular crystals TTF-TCNQ Examples of quasi two dimensional systems are high temperature superconductors HTSC based on copper oxides La₂CuO₄ YBa₂Cu₃O_{6-y} and organic superconductors based on BEDT-TTF molecules The properties of such one and two dimensional materials are not yet fully understood On the one hand the equations of motion of one dimensional systems are rather simple which facilitates rigorous solutions of model problems On the other hand manifestations of various interactions in one dimensional systems are rather peculiar This refers in particular to electron-electron and electron-phonon interactions Even within the limit of a weak coupling constant electron-electron correlations produce an energy gap in the spectrum of one dimensional metals implying a Mott transition from metal to semiconductor state In all these cases perturbation theory is inapplicable Which is one of the main difficulties on the way towards a comprehensive theory of quasi

one dimensional systems This meeting held at the Institute for Theoretical Physics in Kiev May 15 18 1990 was devoted to related problems The papers selected for this volume are grouped into three sections

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