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The Frenkel– Kontorova Model Concepts, Methods, and Applications



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Frenkelkontorova Model Concepts Methods And Applications

**Heidi Reinholz, Manuel de Llano, Gerd
Röpke**



Frenkel-Kontorova Model Concepts Methods And Applications:

The Frenkel-Kontorova Model Oleg M. Braun, Yuri S. Kivshar, 2004-01-09 Theoretical physics deals with physical models. The main requirements for a good physical model are simplicity and universality. Universal models which can be applied to describe a variety of different phenomena are very rare in physics and therefore they are of key importance. Such models attract the special attention of researchers as they can be used to describe underlying physical concepts in a simple way. Such models appear again and again over the years and in various forms thus extending their applicability and educational value. The simplest example of this kind is the model of a pendulum; this universal model serves as a paradigm which encompasses basic features of various physical systems and appears in many problems of very different physical context. Solids are usually described by complex models with many degrees of freedom and therefore the corresponding microscopic equations are rather complicated. However, over the years a relatively simple model known these days as the Frenkel-Kontorova model has become one of the fundamental and universal tools of low dimensional nonlinear physics. This model describes a chain of classical particles coupled to their neighbors and subjected to a periodic on-site potential. **The Frenkel-Kontorova Model** Oleg M. Braun, Yuri S. Kivshar, 2013-03-14 Theoretical physics deals with physical models. The main requirements for a good physical model are simplicity and universality. Universal models which can be applied to describe a variety of different phenomena are very rare in physics and therefore they are of key importance. Such models attract the special attention of researchers as they can be used to describe underlying physical concepts in a simple way. Such models appear again and again over the years and in various forms thus extending their applicability and educational value. The simplest example of this kind is the model of a pendulum; this universal model serves as a paradigm which encompasses basic features of various physical systems and appears in many problems of very different physical context. Solids are usually described by complex models with many degrees of freedom and therefore the corresponding microscopic equations are rather complicated. However, over the years a relatively simple model known these days as the Frenkel-Kontorova model has become one of the fundamental and universal tools of low dimensional nonlinear physics. This model describes a chain of classical particles coupled to their neighbors and subjected to a periodic on-site potential. *The sine-Gordon Model and its Applications* Jesús Cuevas-Maraver, Panayotis G. Kevrekidis, Floyd Williams, 2014-07-22 The sine-Gordon model is a ubiquitous model of Mathematical Physics with a wide range of applications extending from coupled torsion pendula and Josephson junction arrays to gravitational and high energy physics models. The purpose of this book is to present a summary of recent developments in this field incorporating both introductory background material but also with a strong view towards modern applications. Recent experiments, developments regarding the existence, stability, dynamics and asymptotics of nonlinear waves that arise in the model. This book is of particular interest to a wide range of researchers in this field but serves as an introductory text for young researchers and students interested in the topic. The book consists of

well selected thematic chapters on diverse mathematical and physical aspects of the equation carefully chosen and assigned

Topological and Non-Topological Solitons in Scalar Field Theories Yakov M. Shnir, 2018-07-26 Solitons emerge in various non linear systems as stable localized configurations behaving in many ways like particles from non linear optics and condensed matter to nuclear physics cosmology and supersymmetric theories This book provides an introduction to integrable and non integrable scalar field models with topological and non topological soliton solutions Focusing on both topological and non topological solitons it brings together debates around solitary waves and construction of soliton solutions in various models and provides a discussion of solitons using simple model examples These include the Korteweg de Vries system sine Gordon model kinks and oscillons and skyrmions and hopfions The classical field theory of scalar field in various spatial dimensions is used throughout the book in presentation of related concepts both at the technical and conceptual level Providing a comprehensive introduction to the description and construction of solitons this book is ideal for researchers and graduate students in mathematics and theoretical physics

Soliton Nature Sergei Eremenko, 2019-12-04 Dedicated to a broad audience and scientists this new generation easy to read pictorial interactive book uses beautiful photography video channel and computer scripts in R and Python to demonstrate existing and explore new solitons the magnificent and versatile energy concentration phenomenon of nature With 200 images and videos collected around the world and on magnificent Australian beaches we describe captivating stand alone ocean solitons capable of travelling hundreds of miles uninterrupted Along with scary tsunamis the tricky solitonic bores propagating upstream narrow river channels may cause disasters for coastal cities Sudden killer rogue waves endanger even large ships Powerful tornadoes surfing tubes whirlpools and rotating galaxies are solitonic vortices Unique videos of breathers and soliton envelope waves with legendary Ninth Wave in the middle are commented by some legendary scientists Beautiful photography of square grid waves confirms tendency of nature to produce multi dimensional formations Solitonic dislocations and defects are widespread in metal shapes around us Solitonic energy localization effects appear in swing movements of humans perfected them in many sports and dances We also explore new solitonic hypothesis and theories Geosolitons may have played an important role in formation of mountain ranges and sedimentary rocks Using solitonic functions for heart blood pressure pulses may lead to new generation devices Solitonic dislocation and stability effects may exist in behaviour of correlated financial markets New class of atomic solitons can be used to describe Higgs boson the god particle fields spacetime quanta and other fundamental building blocks of nature Readers are welcomed to subscribe and provide own videos to our dedicated video channel and website www.solitonnature.com

Energy Localisation and Transfer Thierry Dauxois, 2004 This book provides an introduction to localised excitations in spatially discrete systems from the experimental numerical and mathematical points of view Also known as discrete breathers nonlinear lattice excitations and intrinsic localised modes these are spatially localised time periodic motions in networks of dynamical units Examples of such networks are molecular crystals biomolecules and arrays of

Josephson superconducting junctions The book also addresses the formation of discrete breathers and their potential role in energy transfer in such systems Contents Computational Studies of Discrete Breathers Vibrational Spectroscopy and Quantum Localization Slow Manifolds Localized Excitations in Josephson Arrays Protein Functional Dynamics Computational Approaches Nonlinear Vibrational Spectroscopy A Method to Study Vibrational Self Trapping Breathers in Biomolecules Statistical Physics of Localized Vibrations Localization and Targeted Transfer of Atomic Scale Nonlinear Excitations Perspectives for Applications Readership Advanced graduate students and postdoctoral researchers in nonlinear dynamics

Elements of Friction Theory and Nanotribology Enrico Gnecco, Ernst Meyer, 2015-04-30 Combining the classical theories of contact mechanics and lubrication with the study of friction on the nanometer range this multi scale book for researchers and students alike guides the reader deftly through the mechanisms governing friction processes based on state of the art models and experimental results The first book in the field to incorporate recent research on nanotribology with classical theories of contact mechanics this unique text explores atomic scale scratches non contact friction and fishing of molecular nanowires as observed in the lab Beginning with simple key concepts the reader is guided through progressively more complex topics such as contact of self affine surfaces and nanomanipulation in a consistent style encompassing both macroscopic and atomistic descriptions of friction and using unified notations to enable use by physicists and engineers across the scientific community Quasicrystals Enrique Maciá-Barber, 2020-12-17 This book provides an interdisciplinary guide to quasicrystals the 2011 Nobel Prize in Chemistry winning topic by presenting an up to date and detailed introduction to the many fundamental aspects and applications of quasicrystals science It reviews the most characteristic features of the peculiar geometric order underlying their structure and their reported intrinsic physical properties along with their potential for specific applications The role of quasiperiodic order in science and technology is also examined by focusing on the new design capabilities provided by this novel ordering of matter This book is specifically devoted to promoting the very notion of quasiperiodic order and to spur its physical implications and technological capabilities It therefore explores the fundamental aspects of intermetallic photonic and phononic quasicrystals as well as soft matter quasicrystals including their intrinsic physical and structural properties In addition it thoroughly discusses experimental data and related theoretical approaches to explain them extending the standard treatment given in most current solid state physics literature It also explores exciting applications in new technological devices of quasiperiodically ordered systems including multilayered quasiperiodic systems along with 2D and 3D designs whilst outlining new frontiers in quasicrystals research This book can be used as a reader friendly introductory text for graduate students in addition to senior scientists and researchers coming from the fields of physics chemistry materials science and engineering Key features Provides an updated and detailed introduction to the interdisciplinary field of quasicrystals in a tutorial style considering both fundamental aspects and additional freedom degrees provided by designs based on quasiperiodically ordered materials Includes 50 fully worked out exercises with

detailed solutions motivating and illustrating the different concepts and notions to provide readers with further learning opportunities Presents a complete compendium of the current state of the art knowledge of quasicrystalline matter and outlines future next generation materials based on quasiperiodically ordered designs for their potential use in useful technological devices Dr Enrique Maci Barber is Professor of condensed matter physics at the Universidad Complutense de Madrid His research interests include the thermoelectric properties of quasicrystals and DNA biophysics In 2010 he received the RSEF BBVA Foundation Excellence Physics Teaching Award His book *Aperiodic Structures in Condensed Matter Fundamentals and Applications* CRC Press Boca Raton 2009 is one of the Top Selling Physics Books according to YBP Library Services *TMS 2014 143rd Annual Meeting & Exhibition, Annual Meeting Supplemental Proceedings* The Minerals, Metals & Materials Society (TMS), 2016-12-16 These papers present advancements in all aspects of high temperature electrochemistry from the fundamental to the empirical and from the theoretical to the applied Topics involving the application of electrochemistry to the nuclear fuel cycle chemical sensors energy storage materials synthesis refractory metals and their alloys and alkali and alkaline earth metals are included Also included are papers that discuss various technical economic and environmental issues associated with plant operations and industrial practices **Microfluidics** Yujun Song, Daojian Cheng, Liang Zhao, 2018-01-04 The first book offering a global overview of fundamental microfluidics and the wide range of possible applications for example in chemistry biology and biomedical science As such it summarizes recent progress in microfluidics including its origin and development the theoretical fundamentals and fabrication techniques for microfluidic devices The book also comprehensively covers the fluid mechanics physics and chemistry as well as applications in such different fields as detection and synthesis of inorganic and organic materials A useful reference for non specialists and a basic guideline for research scientists and technicians already active in this field or intending to work in microfluidics [Applications in Physics, Part A](#) Vasily E. Tarasov, 2019-02-19 This multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications This fourth volume collects authoritative chapters covering several applications of fractional calculus in physics including classical and continuum mechanics **Surface and Interface Science, Volumes 5 and 6** Klaus Wandelt, 2016-03-14 In eight volumes *Surface and Interface Science* covers all fundamental aspects and offers a comprehensive overview of this research area for scientists working in the field as well as an introduction for newcomers Volume 5 *Solid Gas Interfaces I* Topics covered Basics of Adsorption and Desorption Surface Microcalorimetry Adsorption of Rare Gases Adsorption of Alkali and Other Electro Positive Metals Halogen adsorption on metals Adsorption of Hydrogen Adsorption of Water Adsorption of Small Molecules on Metal Surfaces Surface Science Approach to Catalysis Adsorption Bonding and Reactivity of Unsaturated and Multifunctional Molecules Volume 6 *Solid Gas Interfaces II* Topics covered Adsorption of Large Organic Molecules Chirality of Adsorbates Adsorption on Semiconductor Surfaces Adsorption on Oxide Surfaces Oscillatory Surface Reactions Statistical

Surface Thermodynamics Theory of the Dynamics at Surfaces Atomic and Molecular Manipulation Condensed Matter Theories, Volume 22 - Proceedings Of The International Workshop Gerd Ropke, Heidi Reinholz, Manuel De Llano, 2007-09-05

This series on condensed matter theories provides a forum for advanced theoretical research in quantum many body theory. The contributions are highly interdisciplinary emphasizing common concerns among theorists who apply many particle methods in such diverse areas as solid state low temperature statistical nuclear particle and biological physics as well as in quantum field theory quantum information and the theory of complex systems. Each individual contribution is preceded by an extended introduction to the topic treated. Useful details not normally presented in journal articles can be found in this volume.

Condensed Matter Theories Heidi Reinholz, Manuel de Llano, Gerd Ropke, 2007. Annotation: This series on Condensed Matter Theories provides a forum for advanced theoretical research in quantum many body theory. The contributions are highly interdisciplinary emphasizing common concerns among theorists applying many particle methods in such diverse areas as solid state low temperature statistical nuclear particle and biological physics as well as in quantum field theory quantum information and the theory of complex systems. The book is a comprehensive collection of many significant topics in the field of condensed matter theories. Each individual contribution is preceded by an extended introduction to the topic treated. Details not normally presented in journal articles can be found in this volume.

Physical Metallurgy David E. Laughlin, Kazuhiro Hono, 2014-07-24. This fifth edition of the highly regarded family of titles that first published in 1965 is now a three volume set and over 3 000 pages. All chapters have been revised and expanded either by the fourth edition authors alone or jointly with new co authors. Chapters have been added on the physical metallurgy of light alloys the physical metallurgy of titanium alloys atom probe field ion microscopy computational metallurgy and orientational imaging microscopy. The books incorporate the latest experimental research results and theoretical insights. Several thousand citations to the research and review literature are included. Exhaustively synthesizes the pertinent contemporary developments within physical metallurgy so scientists have authoritative information at their fingertips. Replaces existing articles and monographs with a single complete solution. Enables metallurgists to predict changes and create novel alloys and processes.

Localized Excitations in Nonlinear Complex Systems Ricardo Carretero-González, Jesús Cuevas-Maraver, Dimitri Frantzeskakis, Nikos Karachalios, Panayotis Kevrekidis, Faustino Palmero-Acebedo, 2013-11-19. The study of nonlinear localized excitations is a long standing challenge for research in basic and applied science as well as engineering due to their importance in understanding and predicting phenomena arising in nonlinear and complex systems but also due to their potential for the development and design of novel applications. This volume is a compilation of chapters representing the current state of the art on the field of localized excitations and their role in the dynamics of complex physical systems.

Solitons Mohamed Atef Helal, 2022-11-12. This newly updated volume of the Encyclopedia of Complexity and Systems Science ECSS presents several mathematical models that describe this physical phenomenon including the

famous non linear equation Korteweg de Vries KdV that represents the canonical form of solitons Also there exists a class of nonlinear partial differential equations that led to solitons e g Kadomtsev Petviashvili KP Klein Gordon KG Sine Gordon SG Non Linear Schr dinger NLS Korteweg de Vries Burger s KdVB etc Different linear mathematical methods can be used to solve these models analytically such as the Inverse Scattering Transformation IST Adomian Decomposition Method Variational Iteration Method VIM Homotopy Analysis Method HAM and Homotopy Perturbation Method HPM Other non analytic methods use the computational techniques available in such popular mathematical packages as Mathematica Maple and MATLAB The main purpose of this volume is to provide physicists engineers and their students with the proper methods and tools to solve the soliton equations and to discover the new possibilities of using solitons in multi disciplinary areas ranging from telecommunications to biology cosmology and oceanographic studies

Physics of Solitons Thierry Dauxois, Michel Peyrard, 2006-03-09 This textbook gives an instructive view of solitons and their applications for advanced students of physics

Tribology on the Small Scale C. Mathew Mate, 2008 Friction lubrication adhesion and wear are prevalent physical phenomena in everyday life and in many key technologies This book explains how these tribological phenomena originate from atomistic and microscale physical phenomena and shows how this understanding can be used to solve macroscale tribology problems The book is intended to serve both as a textbook for advanced undergraduate and graduate courses in tribology and as an introduction to the field for those scientists and engineers working with technologies where a good grasp of tribology is essential

Trends in Surface Science Research Charles P. Norris, 2006 This book covers the physics and chemistry of surfaces The scope includes the structure thermodynamics and mobility of clean surfaces as well as the interaction of gas molecules with solid surfaces The energetic particle interactions that are the basis for the majority of techniques developed to reveal the structure and chemistry of surfaces are explored including auger electron spectroscopy photoelectron spectroscopy inelastic scattering of electrons and ions low energy electron diffraction scanning probe microscopy and interfacial segregation Crystal nucleation and growth are also considered Principles such as adsorption desorption and reactions between adsorbates are examined with coverage also of new developments in the growth of epitaxial and Langmuir Blodgett films as well as treatment of the etching of surfaces Modern analytical techniques and applications to thin films and nanostructures are included The latest in depth research from around the world is presented

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