

Springer Series in
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M. Toda

Theory of Nonlinear Lattices

Second Enlarged Edition



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Theory Of Nonlinear Lattices Springer Series In Solid State Sciences

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Theory Of Nonlinear Lattices Springer Series In Solid State Sciences:

Theory of Nonlinear Lattices Morikazu Toda, 2012-12-06 Soliton theory the theory of nonlinear waves in lattices composed of particles interacting by nonlinear forces is treated rigorously in this book The presentation is coherent and self contained starting with pioneering work and extending to the most recent advances in the field Special attention is focused on exact methods of solution of nonlinear problems and on the exact mathematical treatment of nonlinear lattice vibrations This new edition updates the material to take account of important new advances [Theory of Nonlinear Lattices \(Volume 20 of Springer Series in Solid-State Sciences\)](#). M. Toda, 1981 **Principles of the Theory of Lattice Dynamics** Harald Böttger, 1983-12-31 No detailed description available for Principles of the Theory of Lattice Dynamics **Statistical Mechanics And Field Theory - Proceedings Of The Seventh Physics Summer School** Vladimir V Bazhanov, Conrad J Burden, 1995-12-21 This proceedings volume aims to expose graduate students to the basic ideas of field theory and statistical mechanics and to give them an understanding and appreciation of current topical research *Selected Papers Of Morikazu Toda* Miki Wadati, 1993-10-22 This volume contains selected papers of Dr Morikazu Toda The papers are arranged in chronological order of publishing dates Among Dr Toda s many contributions his works on liquids and nonlinear lattice dynamics should be mentioned The one dimensional lattice where nearest neighboring particles interact through an exponential potential is called the Toda lattice which is a miracle and indeed a jewel in theoretical physics The papers in this volume can be grouped into five subjects statistical mechanics theory of liquids and solutions lattice dynamics Toda lattice and soliton theory and its applications [Continuous Symmetries and Integrability of Discrete Equations](#) Decio Levi, Pavel Winternitz, Ravil I. Yamilov, 2023-01-23 This book on integrable systems and symmetries presents new results on applications of symmetries and integrability techniques to the case of equations defined on the lattice This relatively new field has many applications for example in describing the evolution of crystals and molecular systems defined on lattices and in finding numerical approximations for differential equations preserving their symmetries The book contains three chapters and five appendices The first chapter is an introduction to the general ideas about symmetries lattices differential difference and partial difference equations and Lie point symmetries defined on them Chapter 2 deals with integrable and linearizable systems in two dimensions The authors start from the prototype of integrable and linearizable partial differential equations the Korteweg de Vries and the Burgers equations Then they consider the best known integrable differential difference and partial difference equations Chapter 3 considers generalized symmetries and conserved densities as integrability criteria The appendices provide details which may help the readers understanding of the subjects presented in Chapters 2 and 3 This book is written for PhD students and early researchers both in theoretical physics and in applied mathematics who are interested in the study of symmetries and integrability of difference equations [Symmetries and Integrability of Difference Equations](#) Decio Levi, Peter Olver, Zora Thomova, Pavel Winternitz, 2011-06-23 Difference equations are playing an

increasingly important role in the natural sciences Indeed many phenomena are inherently discrete and are naturally described by difference equations Phenomena described by differential equations are therefore approximations of more basic discrete ones Moreover in their study it is very often necessary to resort to numerical methods This always involves a discretization of the differential equations involved thus replacing them by difference equations This book shows how Lie group and integrability techniques originally developed for differential equations have been adapted to the case of difference ones Each of the eleven chapters is a self contained treatment of a topic containing introductory material as well as the latest research results The book will be welcomed by graduate students and researchers seeking an introduction to the field As a survey of the current state of the art it will also serve as a valuable reference

Spectral Transform and Solitons

F. Calogero, A. Degasperis, 2011-08-18 *Spectral Transform and Solitons Approximation Methods and Analytical Modeling Using Partial Differential Equations* Tamara Fastovska, Yurii Kolomoitsev, Kateryna Buryachenko, Marina Chugunova, 2025-03-28

Adequate mathematical modeling is the key to success for many real world projects in engineering medicine and other applied areas As soon as an appropriate mathematical model is developed it can be comprehensively analyzed by a broad spectrum of available mathematical methods For example compartmental models are widely used in mathematical epidemiology to describe the dynamics of infectious diseases and in mathematical models of population genetics While the existence of an optimal solution under certain condition can be often proved rigorously this does not always mean that such a solution is easy to implement in practice Finding a reasonable approximation can in itself be a challenging research problem This Research Topic is devoted to modeling analysis and approximation problems whose solutions exploit and explore the theory of partial differential equations It aims to highlight new analytical tools for use in the modeling of problems arising in applied sciences and practical areas Researchers are invited to submit articles that investigate the qualitative behavior of weak solutions removability conditions for singularities the dependence of the local asymptotic property of these solutions on initial and boundary data and also the existence of solutions Contributors are particularly encouraged to focus on anisotropic models analyzing the preconditions on the strength of the anisotropy and comparing the analytical estimates for the growth behavior of the solutions near the singularities with the observed growth in numerical simulations The qualitative analysis and analytical results should be confirmed by the numerically observed solution behavior

Chaotic and Fractal Dynamics

Francis C. Moon, 2008-11-20 A revision of a professional text on the phenomena of chaotic vibrations in fluids and solids Major changes reflect the latest developments in this fast moving topic the introduction of problems to every chapter additional mathematics and applications more coverage of fractals numerous computer and physical experiments Contains eight pages of 4 color pictures

Theory of Nonlinear Lattices

Morikazu Toda, 1981 This book deals with waves in lattices composed of particles interacting by nonlinear forces Since motion in a lattice with exponential interaction between nearest neighbors can be analyzed rigorously it is treated as the central subject

to be discussed From the idea that the fundamentals of the mathematical methods for nonlinear lattices would be elucidated by rigorous results I was led in 1966 to the lattice with exponential interaction which has since proved to be a subject of intensive investigation by many researchers Therefore I have tried to describe the development of the study of this lattice The presentation is intended to be coherent and self contained Chapter 1 starts with a rather historical exposition and deals with the motion in the lattices and in continuous systems in general Fundamental concepts necessary for later chapters including the particlelike behavior of stable pulses solitons the most characteristic entities of the nonlinear waves are introduced The dual transformation which exchanges the roles of particles and interaction is described for development in the next chapter

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Biological Systems J. Pouget,M. Remoissenet,R. Ribotta,1989

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