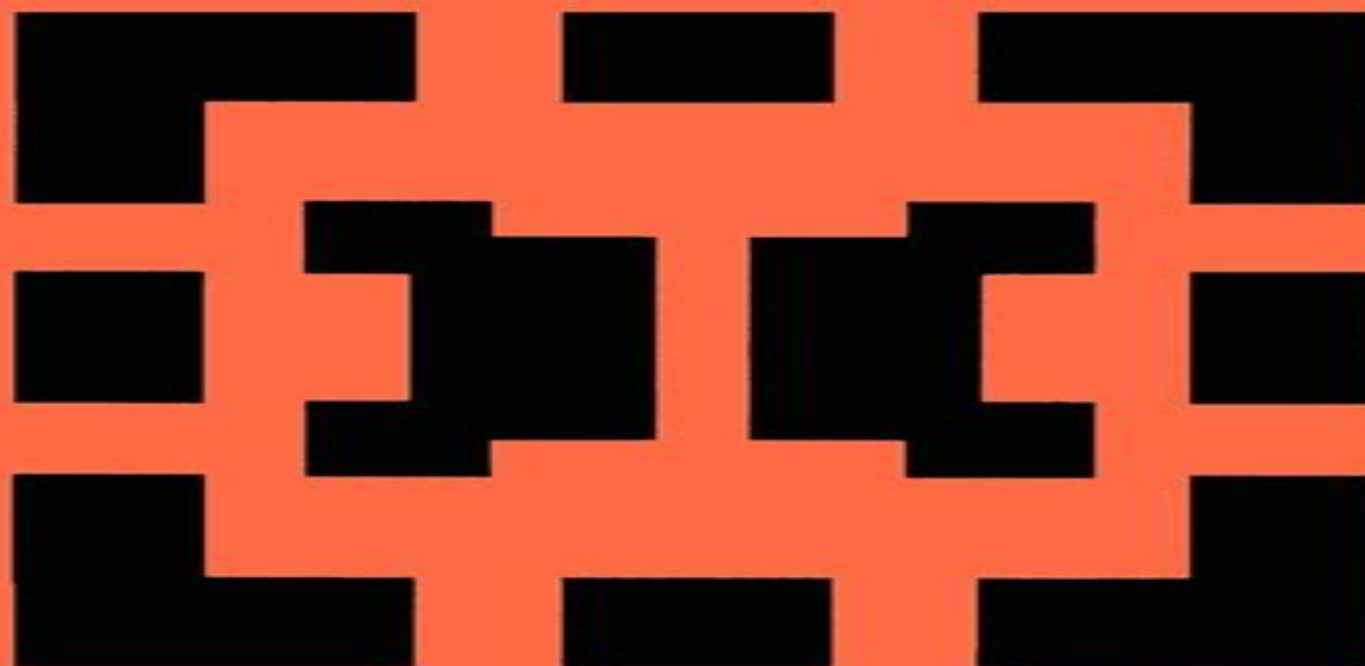


Mathematics and Its Applications

A. S. Davydov

**Solitons in
Molecular Systems**

Second Edition



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Synergetics of Molecular Systems Lev N. Lupichev,Alexander V. Savin,Vasiliy N. Kadantsev,2014-08-19 Synergetics is the quantitative study of multicomponent systems that exhibit nonlinear dynamics and cooperativity This book specifically considers basic models of the nonlinear dynamics of molecular systems and discusses relevant applications in biological physics and the polymer sciences Emphasis is placed on specific solutions to the dynamical equations that correspond to the coherent formation of spatial temporal structures such as solitons kinks and breathers in particular The emergence of these patterns in molecular structures provides a variety of information on their structural properties and plays a significant part in energy transfer processes topological defects dislocations and related structure transitions Real media in which solitons take the form of solitary waves are also considered In this context the formation of nonlinear waves in a continuous medium described by nonlinear equations is associated with spontaneous breaking of the local symmetry of the homogeneous system which produces a range of interesting phenomena A particular feature of this text is its combination of analytic and computational strategies to tackle difficult nonlinear problems at the molecular level of matter

Solitons in Macromolecular Systems Leonid Isaakovich Manevich,V. V. Simmons,2008 This book addresses the issue of non linear problems that have dominated the forefront of physics To analyse these problems it is necessary to develop mathematical methods to match new concepts In this connection for the first time in a long time the same key notions have attracted the attention of physicists and mathematicians This book discusses how the role of such excitations in essentially non linear systems is similar to that of harmonic oscillations and waves in linear physical models

Solitons S.E. Trullinger,V.E. Zakharov,V.L. Pokrovsky,2012-12-02 In the twenty years since Zabusky and Kruskal coined the term soliton this concept changed the outlook on certain types of nonlinear phenomena and found its way into all branches of physics The present volume deals with a great variety of applications of the new concept in condensed matter physics which is particularly reached in experimentally observable occurrences The presentation is not centred around the mathematical aspects the emphasis is on the physical nature of the nonlinear

phenomena occurring in particular situations With its emphasis on concrete mostly experimentally verifiable cases Solitons constitutes a very readable and instructive introduction to the subject as well as an up to date account of current developments in a field of research reaching maturity

Soliton Theory and Its Applications Chaohao Gu,2013-03-14

Soliton theory is an important branch of applied mathematics and mathematical physics An active and productive field of research it has important applications in fluid mechanics nonlinear optics classical and quantum fields theories etc This book presents a broad view of soliton theory It gives an expository survey of the most basic ideas and methods such as physical background inverse scattering Backlund transformations finite dimensional completely integrable systems symmetry Kac Moody algebra solitons and differential geometry numerical analysis for nonlinear waves and gravitational solitons Besides the essential points of the theory several applications are sketched and some recent developments partly by the authors and their collaborators are presented

Perspectives of Nonlinear Dynamics: Volume 2 E. Atlee Jackson,1989

The dynamics of physical chemical biological or fluid systems generally must be described by nonlinear models whose detailed mathematical solutions are not obtainable To understand some aspects of such dynamics various complementary methods and viewpoints are of crucial importance The presentation and style is intended to stimulate the reader's imagination to apply these methods to a host of problems and situations

Without Bounds: A Scientific Canvas of Nonlinearity and Complex Dynamics Ramon G. Rubio,Yuri S. Ryazantsev,Victor M Starov,Guo-Xiang Huang,Alexander P Chetverikov,Paolo Arena,Alex A.

Nepomnyashchy,Alberto Ferrus,Eugene G. Morozov,2013-05-30 Bringing together over fifty contributions on all aspects of nonlinear and complex dynamics this impressive topical collection is both a scientific and personal tribute on the occasion of his 70th birthday by many outstanding colleagues in the broad fields of research pursued by Prof Manuel G Velarde The topics selected reflect the research areas covered by the famous Instituto Pluridisciplinar at the Universidad Complutense of Madrid which he co founded over two decades ago and include fluid physics and related nonlinear phenomena at interfaces and in other geometries wetting and spreading dynamics geophysical and astrophysical flows and novel aspects of electronic transport in anharmonic lattices as well as topics in neurodynamics and robotics

Methods of Inverse Problems in Physics Dilip N. Ghosh Roy,1991-03-14 This interesting volume focuses on the second of the two broad categories into which problems of physical sciences fall direct or forward and inverse or backward problems It emphasizes one dimensional problems because of their mathematical clarity The unique feature of the monograph is its rigorous presentation of inverse problems from quantum scattering to vibrational systems transmission lines and imaging sciences in a single volume It includes exhaustive discussions on spectral function inverse scattering integral equations of Gel'fand Levitan and Marcenko Povzner Levitan and Levin transforms Miller wave operators and Krein's functionals S matrix and scattering data and inverse scattering transform for solving nonlinear evolution equations via inverse solving of a linear isospectral Schrodinger equation and multisoliton solutions of the KdV equation which are of special interest to quantum physicists and mathematicians The

book also gives an exhaustive account of inverse problems in discrete systems including inverting a Jacobi and a Toeplitz matrix which can be applied to geophysics electrical engineering applied mechanics and mathematics A rigorous inverse problem for a continuous transmission line developed by Brown and Wilcox is included The book concludes with inverse problems in integral geometry specifically Radon's transform and its inversion which is of particular interest to imaging scientists This fascinating volume will interest anyone involved with quantum scattering theoretical physics linear and nonlinear optics geosciences mechanical biomedical and electrical engineering and imaging research

Quodons in Mica

Juan F. R. Archilla, Noé Jiménez, Victor J. Sánchez-Morcillo, Luis M. García-Raffi, 2015-07-31 This book presents the current knowledge about nonlinear localized travelling excitations in crystals Excitations can be vibrational electronic magnetic or of many other types in many different types of crystals as silicates semiconductors and metals The book is dedicated to the British scientist FM Russell recently turned 80 He found 50 years ago that a mineral mica muscovite was able to record elementary charged particles and much later that also some kind of localized excitations he called them quodons was also recorded The tracks therefore provide a striking experimental evidence of quodons existence The first chapter by him presents the state of knowledge in this topic It is followed by about 18 chapters from world leaders in the field reviewing different aspects materials and methods including experiments molecular dynamics and theory and also presenting the latest results The last part includes a personal narration of FM Russell of the deciphering of the marks in mica It provides a unique way to present the science in an accessible way and also illustrates the process of discovery in a scientist's mind

Pair Correlations in Many-Fermion Systems Vladimir Z. Kresin, 2013-06-29 At first glance the articles in this book may appear to have nothing in common They cover such seemingly disparate subjects as the properties of small metallic clusters and the behavior of superfluid He³ nuclear physics and organic materials copper oxides and magnetic resonance Why have they been brought together particularly in our time of narrow specialization In fact the properties and effects described in this book touch upon one and the same fundamental phenomenon pair correlation Introduced in the theory of superconductivity by J Bardeen L Cooper and J Schrieffer BCS this effect plays a key role in various Fermi systems The book consists of several sections The first chapter is concerned with conventional and high T_c superconductors The second chapter describes two relatively young families of superconductors organics and fullerenes Chapter III addresses the superfluidity of ³He The discovery of this phenomenon in 1971 was a big event in physics and last year was acknowledged by a Nobel prize This book contains the text of the Nobel lecture Chapters IV and V are devoted to correlations in finite Fermi systems such as small metallic clusters C₆₀ anions and atomic nuclei The book thus covers a broad range of problems illuminating the close ties between various areas of physics

Future Directions of Nonlinear Dynamics in Physical and Biological Systems

P.L. Christiansen, J.C. Eilbeck, R.D. Parmentier, 2013-11-11 Early in 1990 a scientific committee was formed for the purpose of organizing a high level scientific meeting on Future Directions of Nonlinear Dynamics in Physical and Biological Systems in

honor of Alwyn Scott's 60th birthday December 25 1991 As preparations for the meeting proceeded they were met with an unusually broad scale and high level of enthusiasm on the part of the international nonlinear science community resulting in a participation by 168 scientists from 23 different countries in the conference which was held July 23 to August 11 1992 at the Laboratory of Applied Mathematical Physics and the Center for Modelling Nonlinear Dynamics and Irreversible Thermodynamics MIDIT of the Technical University of Denmark During the meeting about 50 lectures and 100 posters were presented in 9 working days The contributions to this present volume have been grouped into the following chapters 1 Integrability Solitons and Coherent Structures 2 Nonlinear Evolution Equations and Diffusive Systems 3 Chaotic and Stochastic Dynamics 4 Classical and Quantum Lattices and Fields 5 Superconductivity and Superconducting Devices 6 Nonlinear Optics 7 Davydov Solitons and Biomolecular Dynamics 8 Biological Systems and Neurophysics AI Scott has made early and fundamental contributions to many of these different areas of nonlinear science They form an important subset of the total number of the papers and posters presented at the meeting Other papers from the meeting are being published in a special issue of Physica D Nonlinear Phenomena

Nonlinear Waves and Solitons on Contours and Closed Surfaces Andrei Ludu, 2012-01-14 This volume is an introduction to nonlinear waves and soliton theory in the special environment of compact spaces such as closed curves and surfaces and other domain contours It assumes familiarity with basic soliton theory and nonlinear dynamical systems The first part of the book introduces the mathematical concept required for treating the manifolds considered providing relevant notions from topology and differential geometry An introduction to the theory of motion of curves and surfaces as part of the emerging field of contour dynamics is given The second and third parts discuss the modeling of various physical solitons on compact systems such as filaments loops and drops made of almost incompressible materials thereby intersecting with a large number of physical disciplines from hydrodynamics to compact object astrophysics This book is intended for graduate students and researchers in mathematics physics and engineering This new edition has been thoroughly revised expanded and updated

New Developments in Soliton Research L. V. Chen, 2006 Since their discovery a mere thirty years ago solitons have been invoked to explain such diverse phenomena as The long lived giant red spot in the highly turbulent Jovian atmosphere The famous Fermi Pasta Ulam paradox wherein a nonlinearly coupled lattice of particles does not display the expected equipartition of energy among available modes It covers Ion acoustic waves in a plasma Energy storage and transfer in proteins via the Davydov soliton and The propagation of short laser pulses in optical fibres over long distances with negligible shape change This volume presents important research from around the globe

Ecosystems and Sustainable Development VIII Y. Villacampa Esteve, C. A. Brebbia, 2011 The biennial series of ECOSUD conferences originating from the work of the late Nobel laureate Ilya Prigogine challenges us to seeking to integrate thermodynamics ecology and economics into ecodynamics It is not only a platform to present novel research related to ecological problems from all over the world but it also gives opportunities for new emergent ideas in science arising from

the cross fertilization of different disciplines including mathematical models and eco informatics evolutionary thermodynamics and biodiversity structures in ecosystems modelling and landscapes to mention but a few This book contains papers presented at the the Eighth International Conference in the well established conference series on Ecosystems and Sustainable Development Conference topics include Greenhouse Gas Issues Ecosystems Modelling Mathematical and System Modelling Natural Resources Management Environmental Indicators Sustainability Studies Recovery of Damaged Areas Energy and the Environment Socio Economic Factors Soil Contamination Waste Management Water Resources Environmental Management and Modelling of alternative futures **Davydov's Soliton Revisited** Peter L.

Christiansen, Alwyn C. Scott, 2013-11-11 Proceedings of a NATO ARW held in Thisted Denmark July 30 August 5 1989

Perspectives of Nonlinear Dynamics: Volume 1 E. Atlee Jackson, 1989 The dynamics of physical chemical biological or fluid systems generally must be described by nonlinear models whose detailed mathematical solutions are not obtainable To understand some aspects of such dynamics various complementary methods and viewpoints are of crucial importance In this book the perspectives generated by analytical topological and computational methods and interplays between them are developed in a variety of contexts This book is a comprehensive introduction to this field suited to a broad readership and reflecting a wide range of applications Some of the concepts considered are topological equivalence embeddings dimensions and fractals Poincaré maps and map dynamics empirical computational sciences vis vis mathematics Ulam's synergetics Turing's instability and dissipative structures chaos dynamic entropies Lorenz and Rossler models predator prey and replicator models FPU and KAM phenomena solitons and nonsolitons coupled maps and pattern dynamics cellular automata

Quantum Mechanics in Nonlinear Systems Xiao-Feng Pang, Yuan-Ping Feng, 2005 In the history of physics and science quantum mechanics has served as the foundation of modern science This book discusses the properties of microscopic particles in nonlinear systems principles of the nonlinear quantum mechanical theory and its applications in condensed matter polymers and biological systems The book is essentially composed of three parts The first part presents a review of linear quantum mechanics as well as theoretical and experimental fundamentals that establish the nonlinear quantum mechanical theory The theory itself and its essential features are covered in the second part In the final part extensive applications of this theory in physics biology and polymer are introduced The whole volume forms a complete system of nonlinear quantum mechanics The book is intended for researchers graduate students as well as upper level undergraduates *Quantum Boundaries of Life* , 2020-11-19 Quantum Boundaries of Life Volume 82 in the Advances in

Quantum Chemistry series presents current topics in this rapidly developing field that have emerged at the cross section of mathematics physics chemistry and biology Topics covered include Quantum Considerations of Neural Memory Functional Neural Electron Transport Plasmon polariton mechanism of the saltatory conduction in myelinated axons Quantum Field Theory Formulation of Brain Dynamics Nonequilibrium Multi Field Theory Formulation of Brain Dynamics Quantum Protein

Folding Classical Quantum Interplay in Living Neural Tissue Function Quantum Effects in Life Dynamics Quantum transport and utilization of free energy in protein a helices and much more The book s message is simple Mystics prefer to put consciousness in the cosmos to avoid Darwinism If the seat of consciousness is found to evolve within all animals then we have a Darwinian understanding not only of the origin of life and species according to natural selection but also concerning consciousness and in particular life being quantum Darwinian Presents surveys of current topics in this rapidly developing field that has emerged at the cross section of the historically established areas of mathematics physics chemistry and biology Features detailed reviews written by leading international researchers

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