

Peter J. Olver
David H. Sattinger
Editors

Solitons in Physics, Mathematics, and Nonlinear Optics



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Solitons In Physics Mathematics And Nonlinear Optics

**Mark I. Freidlin, Sergey Gredeskul, John
K. Hunter, Andrew Marchenko, Leonid
Pastur**



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Solitons in Physics, Mathematics, and Nonlinear Optics Peter J. Olver, David H. Sattinger, 2012-12-06 This IMA Volume in Mathematics and its Applications SOLITONS IN PHYSICS MATHEMATICS AND NONLINEAR OPTICS is based on the proceedings of two workshops which were an integral part of the 1988-89 IMA program on NONLINEAR WAVES. The workshops focussed on the main parts of the theory of solitons and on the applications of solitons in physics, biology, and engineering with a special concentration on nonlinear optics. We thank the Coordinating Committee: James Glimm, Daniel Joseph, Barbara Keyfitz, An Majda, Alan Newell, Peter Olver, David Sattinger, and David Schaeffer for drawing planning and implementing the stimulating year-long program. We especially thank the Workshop Organizers for Solitons in Physics and Mathematics: Alan Newell, Peter Olver, and David Sattinger, and for Nonlinear Optics and Plasma Physics: David Kaup and Yuji Kodama for their efforts in bringing together many of the major figures in those research fields in which solitons in physics, mathematics, and nonlinear optics theories are used. A. Vner, Friedman, Willard, Miller Jr. PREFACE This volume includes some of the lectures given at two workshops: Solitons in Physics and Mathematics and Solitons in Nonlinear Optics and Plasma Physics held during the 1988-89 IMA year on Nonlinear Waves. Since their discovery by Kruskal and Zabusky in the early 1960s, solitons have had a profound impact on many fields ranging from engineering and physics to algebraic geometry.

Solitons in Physics, Mathematics, and Nonlinear Optics Peter J. Olver, David H. Sattinger, 1990-06-26 This IMA Volume in Mathematics and its Applications SOLITONS IN PHYSICS MATHEMATICS AND NONLINEAR OPTICS is based on the proceedings of two workshops which were an integral part of the 1988-89 IMA program on NONLINEAR WAVES. The workshops focussed on the main parts of the theory of solitons and on the applications of solitons in physics, biology, and engineering with a special concentration on nonlinear optics. We thank the Coordinating Committee: James Glimm, Daniel Joseph, Barbara Keyfitz, An Majda, Alan Newell, Peter Olver, David Sattinger, and David Schaeffer for drawing planning and implementing the stimulating year-long program. We especially thank the Workshop Organizers for Solitons in Physics and Mathematics: Alan Newell, Peter Olver, and David Sattinger, and for Nonlinear Optics and Plasma Physics: David Kaup and Yuji Kodama for their efforts in bringing together many of the major figures in those research fields in which solitons in physics, mathematics, and nonlinear optics theories are used. A. Vner, Friedman, Willard, Miller Jr. PREFACE This volume includes some of the lectures given at two workshops: Solitons in Physics and Mathematics and Solitons in Nonlinear Optics and Plasma Physics held during the 1988-89 IMA year on Nonlinear Waves. Since their discovery by Kruskal and Zabusky in the early 1960s, solitons have had a profound impact on many fields ranging from engineering and physics to algebraic geometry.

Introduction to non-Kerr Law Optical Solitons Anjan Biswas, Swapan Konar, 2006-11-10 Despite remarkable developments in the field, a detailed treatment of non-Kerr law media has not been published. *Introduction to non-Kerr Law Optical Solitons* is the first book devoted exclusively to optical soliton propagation in media that possesses non-Kerr law nonlinearities. After

an introduction to the basic features of fiber optic com **Introduction to non-Kerr Law Optical Solitons** Anjan Biswas, Swapan Konar, 2006-11-10 Despite remarkable developments in the field a detailed treatment of non Kerr law media has not been published Introduction to non Kerr Law Optical Solitons is the first book devoted exclusively to optical soliton propagation in media that possesses non Kerr law nonlinearities After an introduction to the basic features of fiber optic com

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Parallel Solution of Partial Differential Equations Petter Bjorstad, Mitchell Luskin, 2012-12-06 This IMA Volume in Mathematics and its Applications PARALLEL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS is based on the proceedings of a workshop with the same title The work shop was an integral part of the 1996 97 IMA program on MATHEMAT ICS IN HIGH PERFORMANCE COMPUTING I would like to thank Petter Bj0rstad of the Institutt for Informatikk University of Bergen and Mitchell Luskin of the School of Mathematics University of Minnesota for their excellent work as organizers of the meeting and for editing the proceedings I also take this opportunity to thank the National Science Foundation NSF Department of Energy DOE and the Army Research Office ARO whose financial support made the workshop possible Willard Miller Jr Professor and Director v PREFACE The numerical solution of partial differential equations has been of major importance to the development of many technologies and has been the target of much of the development of parallel computer hardware and software Parallel computers offer the promise of greatly increased perfor mance and the routine calculation of previously intractable problems The papers in this volume were presented at the IMA workshop on the Paral lel Solution of PDE held during June 9 13 1997 The workshop brought together leading numerical analysts computer scientists and engineers to assess the state of the art and to consider future directions **Stochastic Models in Geosystems**

Stanislav A. Molchanov, Wojbor A. Woyczynski, 2012-12-06 This IMA Volume in Mathematics and its Applications STOCHASTIC MODELS IN GEOSYSTEMS is based on the proceedings of a workshop with the same title and was an integral part of the 1993-94 IMA program on Emerging Applications of Probability. We would like to thank Stanislav A. Molchanov and Wojbor A. Woyczynski for their hard work in organizing this meeting and in editing the proceedings. We also take this opportunity to thank the National Science Foundation, the Office of Naval Research, the Army Research Office and the National Security Agency whose financial support made this workshop possible. Avner Friedman, Willard Miller Jr. v PREFACE A workshop on Stochastic Models in Geosystems was held during the week of May 16, 1994, at the Institute for Mathematics and Its Applications at the University of Minnesota. It was part of the Special Year on Emerging Applications of Probability program put together by an organizing committee chaired by J. Michael Steele. The invited speakers represented a broad interdisciplinary spectrum including mathematics, statistics, physics, geophysics, astrophysics, atmospheric physics, fluid mechanics, seismology, and oceanography. The common underlying theme was stochastic modeling of geophysical phenomena and papers appearing in this volume reflect a number of research directions that are currently pursued in these areas.

Environmental Studies Mary F. Wheeler, 2012-12-06 Environmental protection has become a universal issue with world-wide support. Environmental studies have now bridged the realms of academic research and societal applications. Mathematical modeling and large-scale data collection and analysis lie at the core of all environmental studies. Unfortunately, scientists, mathematicians, and engineers immersed in developing and applying environmental models, computational methods, statistical techniques, and computational hardware advance with separate and often discordant paces. The volume is based on recent research designed to provide a much-needed interdisciplinary forum for joint exploration of recent advances in this field.

Large-Scale Optimization with Applications Lorenz T. Biegler, 1997-08-07 A three-week workshop on Large-Scale Optimization was held at the IMA from July 10 to July 28, 1995, as part of its summer program. These workshops brought together some of the world's leading experts in the areas of optimization, inverse problems, optimal design, optimal control, and molecular structures. The content of these volumes represents a majority of the presentations at the three workshops. The presentations and the subsequent articles published here are intended to be useful and accessible to both the mathematical programmers and those working in the applications. Perhaps somewhat optimistically, the hope is that the workshops and the proceedings will also initiate some long-term research projects and impart to new researchers the excitement, vitality, and importance of this kind of cooperation to the applications and to applied mathematics.

Particulate Flows Donald A. Drew, Daniel D. Joseph, Stephen L. Passman, 2012-12-06 This IMA Volume in Mathematics and its Applications PARTICULATE FLOWS: PROCESSING AND RHEOLOGY is based on the proceedings of a very successful one-week workshop with the same title which was an integral part of the 1995-1996 IMA program on Mathematical Methods in Materials Science. We would like to thank Donald A. Drew, Daniel D. Joseph, and Stephen L. Passman for their excellent work as organizers of the meeting. We

also take this opportunity to thank the National Science Foundation NSF the Army Research Office ARO and the Office of Naval Research ONR whose financial support made the workshop possible

A vner Friedman Robert Gulliver v PREFACE The workshop on Particulate Flows Processing and Rheology was held January 8 12 1996 at the Institute for Mathematics and its Applications on the University of Minnesota Twin Cities campus as part of the 1995 96 Program on Mathematical Methods in Materials Science There were about forty participants and some lively discussions in spite of the fact that bad weather on the east coast kept some participants from attending and caused scheduling changes throughout the workshop Heterogeneous materials can behave strangely even in simple flow situations For example a mixture of solid particles in a liquid can exhibit behavior that seems solid like or fluid like and attempting to measure the viscosity of such a mixture leads to contradictions and unrepeatable experiments Even so such materials are commonly used in manufacturing and processing

Image Models (and their Speech Model Cousins) Stephen Levinson, Larry Shepp, 2012-12-06 This IMA Volume in Mathematics and its Applications IMAGE MODELS AND THEIR SPEECH MODEL COUSINS is based on the proceedings of a workshop that was an integral part of the 1993 94 IMA program on Emerging Applications of Probability We thank Stephen E Levinson and Larry Shepp for organizing the workshop and for editing the proceedings We also take this opportunity to thank the National Science Foundation the Army Research Office and the National Security Agency whose financial support made the workshop possible

A vner Friedman Willard Miller Jr v PREFACE This volume is an attempt to explore the interface between two diverse areas of applied mathematics that are both customers of the maximum likelihood methodology emission tomography on the one hand and hidden Markov models as an approach to speech understanding on the other hand There are other areas where maximum likelihood is used some of which are represented in this volume parsing of text Jelinek microstructure of materials Ji and DNA sequencing Nelson Most of the participants were in the main areas of speech or emission density reconstruction Of course there are many other areas where maximum likelihood is used that are not represented here

Surveys in Applied Mathematics Mark I. Freidlin, Sergey Gredeskul, John K. Hunter, Andrew Marchenko, Leonid Pastur, 2012-12-06 Volume 2 offers three in depth articles covering significant areas in applied mathematics research Chapters feature numerous illustrations extensive background material and technical details and abundant examples The authors analyze nonlinear front propagation for a large class of semilinear partial differential equations using probabilistic methods examine wave localization phenomena in one dimensional random media and offer an extensive introduction to certain model equations for nonlinear wave phenomena

Physics Briefs, 1993 *Topology and Geometry in Polymer Science* Stuart G. Whittington, Witt De Sumners, Timothy Lodge, 2012-12-06 This IMA Volume in Mathematics and its Applications TOPOLOGY AND GEOMETRY IN POLYMER SCIENCE is based on the proceedings of a very successful one week workshop with the same title This workshop was an integral part of the 1995 1996 IMA program on Mathematical Methods in Materials Science We would like to thank Stuart G Whittington De Witt Sumners and Timothy Lodge for their excellent work

as organizers of the meeting and for editing the proceedings We also take this opportunity to thank the National Science Foundation NSF the Army Research Office ARO and the Office of Naval Research ONR whose financial support made the workshop possible Avner Friedman Robert Gulliver v

PREFACE This book is the product of a workshop on Topology and Geometry of Polymers held at the IMA in June 1996 The workshop brought together topologists combinatorialists theoretical physicists and polymer scientists who share an interest in characterizing and predicting the microscopic entanglement properties of polymers and their effect on macroscopic physical properties

Solitons In Multidimensions: Inverse Spectral Transform Method B G Konopelchenko,1993-04-30 The book is devoted to the mathematical theory of soliton phenomena on the plane The inverse spectral transform method which is a main tool for the study of the 2 1 dimensional soliton equation is reviewed The problem and the Riemann Hilbert problem method are discussed Several basic examples of soliton equations are considered in detail This volume is addressed both to the nonexpert and to the researcher in the field This is the first literature dealing specifically with multidimensional soliton equations

q-Series and Partitions Dennis Stanton,2012-12-06 This IMA Volume in Mathematics and its Applications q Series and Partitions is based on the proceedings of a workshop which was an integral part of the 1987 88 IMA program on APPLIED COMBINATORICS We are grateful to the Scientific Committee Victor Klee Chairman Daniel Kleitman Dijen Ray Chaudhuri and Dennis Stanton for planning and implementing an exciting and stimulating year long program We especially thank the Workshop Organizer Dennis Stanton for organizing a workshop which brought together many of the major figures in a variety of research fields in which q series and partitions are used Avner Friedman Willard Miller Jr

PREFACE This volume contains the Proceedings of the Workshop on q Series and Partitions held at the IMA on March 7 11 1988 Also included are papers by Goodman and O Hara Macdonald and Zeilberger on unimodality This work was of substantial interest and discussed by many participants in the Workshop The papers have been grouped into four parts identities unimodality of Gaussian polynomials constant term problems and related integrals and orthogonal polynomials They represent a cross section of the recent work on q series including partitions combinatorics Lie algebras analysis and mathematical physics I would like to thank the staff of the IMA and its directors Avner Friedman and Willard Miller Jr for providing a wonderful environment for the Workshop Patricia Brick and Kaye Smith prepared the manuscripts

Mathematics and the 21st Century A. A. Ashour,A.-S. F. Obada,2001 The Conference on Mathematics and the 21st Century was held in Cairo Egypt during the period 15 20 January 2000 The conference's sessions consisted of plenary lectures and topical sessions Some of the plenary lectures covered general fields such as rewriting the history of mathematics education of mathematics relation between mathematics and sciences and mathematical aspects of transportation

COMPUTATIONAL MODELS - Volume I Shaidurov Vladimir Viktorovich,2009-04-10 Computational Models is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Modern Computational Mathematics arises in a wide variety of fields

including business economics engineering finance medicine and science The Theme on Computational Models provides the essential aspects of Computational Mathematics emphasizing Basic Methods for Solving Equations Numerical Analysis and Methods for Ordinary Differential Equations Numerical Methods and Algorithms Computational Methods and Algorithms Numerical Models and Simulation These two volumes are aimed at those seeking in depth of advanced knowledge University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Waves Called Solitons Michel Remoissenet, 2013-03-09 In the third edition the presentation of new topics has been deliberately kept simple for pedagogical purposes Chapter 1 was completed by references to the tidal bore and magnetic envelope solitons Two new sections devoted to magnetic envelope solitons and signal processing with solitons have been added to Chap 4 Short comments on models describing blood pressure pulse propagation in terms of solitons were added to chapter 5 A description of a new mechanical transmission line with two equilibrium states has been included in Chap 6 Such an analog device is useful to illustrate the properties of kink solitons and to observe solitary waves with a compact shape called compactons New references concerning recent advances in experimental techniques and lattice effects were added to Chap 7 In Chap 8 a short introduction to spatial optical solitons in continuous and discrete systems was included Chapter 9 was completed by new sections devoted to nonlinear lattice models and energy localization The concepts of self trapped states and intrinsic localized modes or discrete breathers are discussed Different analog chains which make it possible to observe the characteristic features of discrete breathers are described Contrary to previous chapters where we have considered reversible or conservative systems where solitons can exist owing to the dynamical balance between linear dispersion and nonlinearity Chapter 11 which is a new chapter is devoted to irreversible systems where nonlinearity can balance the effects of dissipation leading to diffusing solitary waves or diffusive solitons

Collision-Based Computing Andrew Adamatzky, 2012-12-06 Collision Based Computing presents a unique overview of computation with mobile self localized patterns in non linear media including computation in optical media mathematical models of massively parallel computers and molecular systems It covers such diverse subjects as conservative computation in billiard ball models and its cellular automaton analogues implementation of computing devices in lattice gases Conway s Game of Life and discrete excitable media theory of particle machines computation with solitons logic of ballistic computing phenomenology of computation and self replicating universal computers Collision Based Computing will be of interest to researchers working on relevant topics in Computing Science Mathematical Physics and Engineering It will also be useful background reading for postgraduate courses such as Optical Computing Nature Inspired Computing Artificial Intelligence Smart Engineering Systems Complex and Adaptive Systems Parallel Computation Applied Mathematics and Computational Physics

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