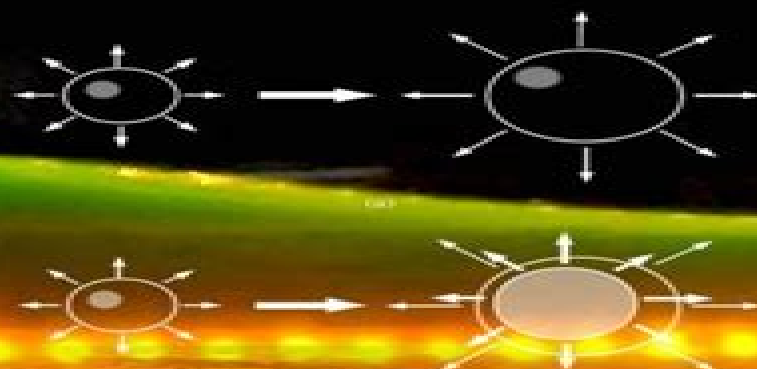


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Solitons in Physics, Mathematics, and Nonlinear Optics Peter J. Olver, David H. Sattinger, 2012-12-06 This IMA Volume in Mathematics and its Applications SOLITONS IN PHYSICS MATHEMATICS AND NONLINEAR OPTICS is based on the proceedings of two workshops 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 drew 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 LM A year on Nonlinear Waves Since their discovery by Kruskal and Zabusky in the early 1960 s solitons have had a profound impact on many fields ranging from engineering and physics to algebraic geometry

Solitons P. G. Drazin, 1986 Basic Methods Of Soliton Theory Ivan V Cherednik, 1996-08-22 In the 25 years of its existence Soliton Theory has drastically expanded our understanding of integrability and contributed a lot to the reunification of Mathematics and Physics in the range from deep algebraic geometry and modern representation theory to quantum field

theory and optical transmission lines The book is a systematic introduction to the Soliton Theory with an emphasis on its background and algebraic aspects It is the first one devoted to the general matrix soliton equations which are of great importance for the foundations and the applications Differential algebra local conservation laws Bäcklund Darboux transforms algebraic geometry theta and Baker functions and the inverse scattering method Riemann Hilbert problem with well grounded preliminaries are applied to various equations including principal chiral fields Heisenberg magnets Sin Gordon and Nonlinear Schrödinger equation

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The Versatile Soliton Alexandre T. Filippov, 2010-05-18 If you have not already heard about solitons you will sooner or later encounter them The soliton a solitary wave impulse preserving its shape and strikingly similar to a particle is one of the most fascinating and beautiful phenomena in the physics of nonlinear waves In this engaging book the concept of the soliton is traced from the beginning of the last century to modern times with recent applications in biology oceanography solid state physics electronics elementary particle physics and cosmology The main concepts and results of theoretical physics related to solitons can be explained without using much mathematics Indeed on the descriptive and historical level only some knowledge of high school physics and mathematics is needed At a higher level for understanding the elementary theory of oscillations and waves the reader can intuit much from the numerous illustrations and perhaps skip the formulas presented But to appreciate the deep connections in this book between apparently different and diverse phenomena and ideas the reader must be able to follow elementary mathematical computations Still more advanced mathematics is required for the appendices

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 Bäcklund 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

Solitons Boling Guo, Xiao-Feng Pang, Yu-Feng

Wang,Nan Liu,2018-03-19 This book provides an up to date overview of mathematical theories and research results on solitons presenting related mathematical methods and applications as well as numerical experiments Different types of soliton equations are covered along with their dynamical behaviors and applications from physics making the book an essential reference for researchers and graduate students in applied mathematics and physics Contents Introduction Inverse scattering transform Asymptotic behavior to initial value problems for some integrable evolution nonlinear equations Interaction of solitons and its asymptotic properties Hirota method B cklund transformations and the infinitely many conservation laws Multi dimensional solitons and their stability Numerical computation methods for some nonlinear evolution equations The geometric theory of solitons Global existence and blow up for the nonlinear evolution equations The soliton movements of elementary particles in nonlinear quantum field The theory of soliton movement of superconductive features The soliton movements in condensed state systemsontents *Soliton Equations And Hamiltonian Systems* Leonid A Dickey,1991-09-02 The theory of soliton equations and integrable systems has developed rapidly during the last 20 years with numerous applications in mechanics and physics For a long time books in this field have not been written but the flood of papers was overwhelming many hundreds maybe thousands of them All this followed one single work by Gardner Greene Kruskal and Miura about the Korteweg de Vries equation KdV which had seemed to be merely an unassuming equation of mathematical physics describing waves in shallow water This branch of science is attractive because it is one of those which revives the interest in the basic principles of mathematics a beautiful formula

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