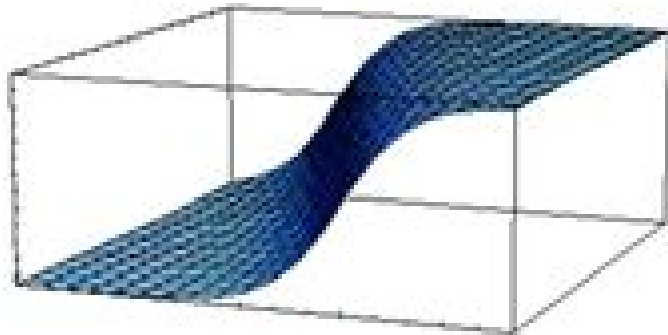
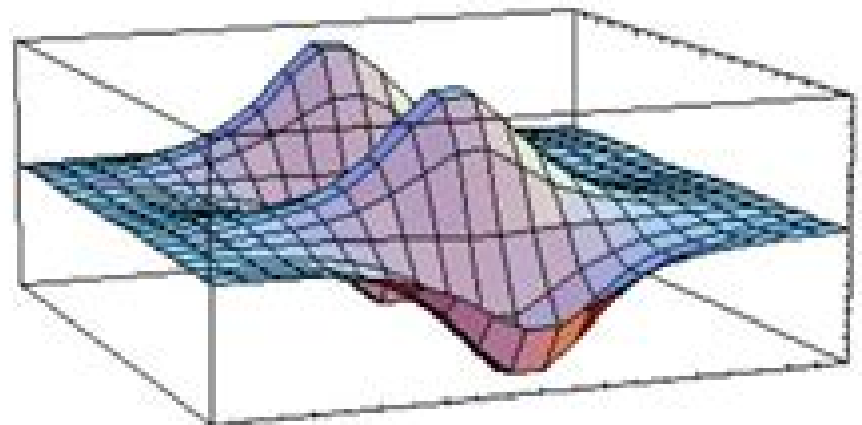
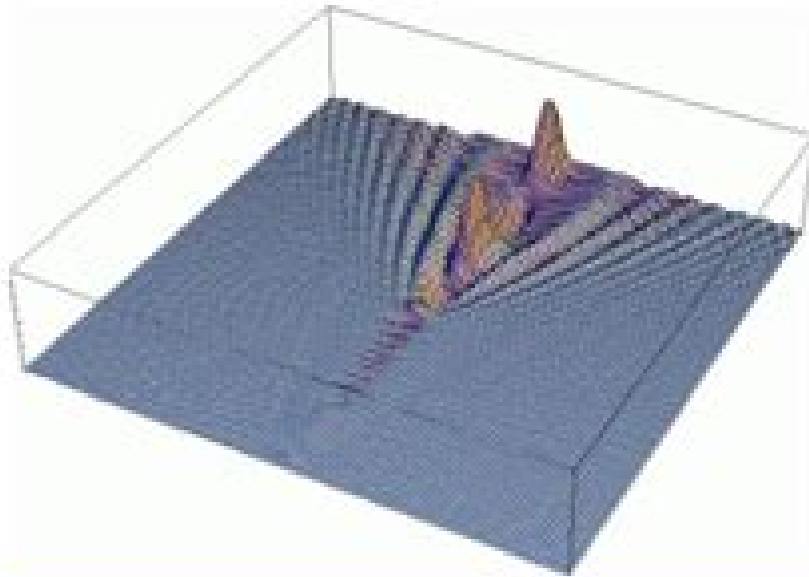


Solitons nowadays



- Today solitons take apart in many physical areas, like hydrodynamics, quantum mechanics, particle physics and so on.
- It was found a lots of equation with soliton-type solutions.



Solitons In Action

Akira Hasegawa



Solitons In Action:

Solitons in Mathematics and Physics Alan C. Newell, 1985-06-01 A discussion of the soliton focusing on the properties that make it physically ubiquitous and the soliton equation mathematically miraculous *Solitons in Molecular Systems* Davydov, 2013-03-09 Approach your problems from the It isn't that they can't see the end and begin with the answers solution It is that they can't Then one day perhaps you will see the problem find the final question G K Chesterton The Scandal of The Hermit Clad in Crane Father Brown The Point of a Pin Feathers in R van Gulik's The Chinese Maze Murders Growing specialization and diversification have brought a host of monographs and textbooks on increasingly topics However the tree of knowledge of mathematics and related fields does not grow only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially in regional and theoretical economics algebraic geometry interacts with physics the Minkowski lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electric engineering can use Stein spaces And in addition to this there are such new emerging subdisciplines as complete integrable systems chaos synergetics and large scale order which are almost impossible to fit into the existing classification schemes The draw upon widely different sections of mathematics Solitons R. MacKenzie, M.B. Paranjape, W.J. Zakrzewski, 2012-12-06 Solitons were discovered by John Scott Russell in 1834 and have interested scientists and mathematicians ever since They have been the subject of a large body of research in a wide variety of fields of physics and mathematics not to mention engineering and other branches of science such as biology This volume comprises the written versions of the talks presented at a workshop held at Queen's University in 1997 an interdisciplinary meeting wherein top researchers from many fields could meet interact and exchange ideas Topics covered include mathematical and numerical aspects of solitons as well as applications of solitons to nuclear and particle physics cosmology and condensed matter physics The book should be of interest to researchers in any field in which solitons are encountered **Optical Solitons** Yuri S. Kivshar, Govind P. Agrawal, 2003-06-12 The current research into solitons and their use in fiber optic communications is very important to the future of communications Since the advent of computer networking and high speed data transmission technology people have been striving to develop faster and more reliable communications media Optical pulses tend to broaden over relatively short distances due to dispersion but solitons on the other hand are not as susceptible to the effects of dispersion and although they are subject to losses due to attenuation they can be amplified without being received and retransmitted This book is the first to provide a thorough overview of optical solitons The main purpose of this book is to present the rapidly developing field of Spatial Optical Solitons starting from the basic concepts of light self focusing and self

trapping It will introduce the fundamental concepts of the theory of nonlinear waves and solitons in non integrated but physically realistic models of nonlinear optics including their stability and dynamics Also it will summarize a number of important experimental verification of the basic theoretical predictions and concepts covering the observation of self focusing in the earlier days of nonlinear optics and the most recent experimental results on spatial solitons vortex solitons and soliton interaction spiraling Introduces the fundamental concepts of the theory of nonlinear waves and solitons through realistic models Material is based on authors years of experience actively working in and researching the field Summarizes the most important experimental verification of the basic theories predictions and concepts of this ever evolving field from the earliest studies to the most recent

Waves Called Solitons Michel Remoissenet, 2013-04-17 Nonlinearity is a fascinating element of nature whose importance has been appreciated for many years when considering large amplitude wave motions observed in various fields ranging from fluids and plasmas to solid state chemical biological and geological systems Localized large amplitude waves called solitons which propagate without spreading and have particle like properties represent one of the most striking aspects of nonlinear phenomena Although a wealth of literature on the subject including theoretical and numerical studies is available in good recent books and research journals very little material has found its way into introductory textbooks and curricula This is perhaps due to a belief that nonlinear physics is difficult and cannot be taught at an introductory level to undergraduate students and practitioners Consequently there is considerable interest in developing practical material suitable for students at the lowest introductory level This book is intended to be an elementary introduction to the physics of solitons for students physicists engineers and practitioners We present the modeling of nonlinear phenomena where soliton like waves are involved together with applications to a wide variety of concrete systems and experiments This book is designed as a book of physical ideas and basic methods and not as an up to the minute book concerned with the latest research results The background in physics and the amount of mathematical knowledge assumed of the reader is within that usually accumulated by junior or senior students in physics

Physics and Applications of Optical Solitons in Fibres '95 Akira Hasegawa, 2012-12-06 This book summarizes the proceedings of the invited talks presented at the International Symposium of Physics and Application of Optical Solitons in Fibers held in Kyoto during November 14 to 17 1995 As a result of worldwide demand for ultra high bitrate transmissions and increased scientific interests from the soliton community research on optical solitons in fibers has made a remarkable progress in recent years In view of these trends and with the support of the Japanese Ministry of Posts and Telecommunications the Research Group for Optical Soliton Communications ROSC chaired by Akira Hasegawa was established in Japan in April 1995 to promote collaboration and information exchange among communication service companies industries and academic circles in the theory and application of optical solitons This symposium was organized as a part of the ROSC activities The symposium attracted enthusiastic response by worldwide researchers involved in this subject which has lead to the most intensive meeting that the editor ever

attended The reader will find the contents to be well balanced among theory experiment and technology Although the evaluation of the contents shall naturally depend on the particular area of interest of the reader the symposium has confirmed that the soliton based light wave transmission has achieved the best result in one channel both in distance of transmission and in bitrate although in wavelength division multiplexed WDM systems NRZ transmission has yet better result

Baryons As Skyrme Solitons - Proceedings Of The International Workshop G Holzwarth,1993-07-15 The revival of the Skyrme model for baryons has led to a large variety of investigations ranging from the foundations of effective meson theories and chiral soliton models over numerous extensions of Skyrme s original concept to many impressive results in applications to the meson baryon system Each author has made essential contributions to the field of his expertise and the lectures collected in this proceedings review and asses the present status of these achievements and serve as guiding lines for future developments *Optical Solitons* J. R. Taylor,1992-04-23 Provides an overview of our current understanding of optical soliton properties introducing the subject for students and reviewing the most recent research

Solitons And Particles Giulio Soliani,1984-12-01 This is the most up to date book on solitons and is divided into two parts Part 1 Detailed introductory lectures on different aspects of solitons plus lectures on the mathematical aspects on this subject Part 2 Is a collection of reprints on mathematical theories of solitons solitons in field theory solitons as particles and their properties especially topological and physical properties This book is aimed at a wide audience of physicists and mathematicians It is an ideal reference book for young researchers and graduate students *Hamiltonian Methods in the Theory of Solitons* Ludwig Faddeev,Leon Takhtajan,2007-08-10 This book presents the foundations of the inverse scattering method and its applications to the theory of solitons in such a form as we understand it in Leningrad The concept of solitonwas introduced by Kruskal and Zabusky in 1965 A soliton a solitary wave is a localized particle like solution of a nonlinear equation which describes excitations of finite energy and exhibits several characteristic features propagation does not destroy the profile of a solitary wave the interaction of several solitary waves amounts to their elastic scat tering so that their total number and shape are preserved Occasionally the concept of the soliton is treated in a more general sense as a localized solu tion of finite energy At present this concept is widely spread due to its universality and the abundance of applications in the analysis of various processes in nonlinear media The inverse scattering method which is the mathematical basis of soliton theory has developed into a powerful tool of mathematical physics for studying nonlinear partial differential equations almost as vigoraus as the Fourier transform The book is based on the Hamiltonian interpretation of the method hence the title Methods of differential geometry and Hamiltonian formal ism in particular are very popular in modern mathematical physics It is precisely the general Hamiltonian formalism that presents the inverse scat tering method in its most elegant form Moreover the Hamiltonian formal ism provides a link between classical and quantum mechanics 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

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 Bäcklund 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 systems contents

The Pinch Technique and its Applications to Non-Abelian Gauge Theories John M. Cornwall,Joannis Papavassiliou,Daniele Binosi,2023-07-27 This monograph describes the pinch technique within elementary particle theory it is now available as an Open Access book [String Phenomenology 2003, Proceedings Of The 2nd International Conference](#)

Steve A Abel,Alon E Faraggi,Jose Santiago-perez,Veronica Sanz,2004-08-30 This book contains a remarkable overview of the current trends in string phenomenology through the contributions of an international team of researchers who present their latest results Dedicated to the memory of the late Professor Ian Kogan this volume will fill a gap in the literature on a comprehensive overview of the subject The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences *Transverse-Pattern Formation in Photorefractive Optics* Cornelia

Denz,Michael Schwab,Carsten Weilmann,2003-09-22 Overview of current developments in nonlinear photorefractive optics The book discusses exciting discoveries with special emphasis on transverse effects such as spatial soliton formation and interaction spontaneous pattern formation and pattern competition in active feedback systems Different aspects of potential applications such as wave guiding in adaptive photorefractive solitons and techniques for pattern control for information processing are also described

The World in Eleven Dimensions M.J Duff,1999-01-01 A unified theory embracing all physical phenomena is a major goal of theoretical physics In the early 1980s many physicists looked to eleven dimensional supergravity in the hope that it might provide that elusive superunified theory In 1984 supergravity was knocked off its

pedestal by ten dimensional superstrings one dimensional objects whose v

Dissipative Optical Solitons Mário F. S. Ferreira, 2022-09-23 This book introduces the basic concept of a dissipative soliton before going to explore recent theoretical and experimental results for various classes of dissipative optical solitons high energy dissipative solitons and their applications and mode locked fiber lasers A soliton is a concept which describes various physical phenomena ranging from solitary waves forming on water to ultrashort optical pulses propagating in an optical fiber While solitons are usually attributed to integrability in recent years the notion of a soliton has been extended to various systems which are not necessarily integrable Until now the main emphasis has been given to well known conservative soliton systems but new avenues of inquiry were opened when physicists realized that solitary waves did indeed exist in a wide range of non integrable and non conservative systems leading to the concept of so called dissipative optical solitons Dissipative optical solitons have many unique properties which differ from those of their conservative counterparts For example except for very few cases they form zero parameter families and their properties are completely determined by the external parameters of the optical system They can exist indefinitely in time as long as these parameters stay constant These features of dissipative solitons are highly desirable for several applications such as in line regeneration of optical data streams and generation of stable trains of laser pulses by mode locked cavities

Modelling of Complex Signals in Nerves Jüri Engelbrecht, Kert Tamm, Tanel Peets, 2021-05-11 This book describes fundamental physical principles together with their mathematical formulations for modelling the propagation of signals in nerve fibres Above all it focuses on the complex electro mechano thermal process that produces an ensemble of waves composed of several components besides the action potential These components include mechanical waves in the biomembrane and axoplasm together with the temperature change Pursuing a step by step approach the content moves from physics and mathematics to describing the physiological effects and finally to modelling the coupling effects The assumptions and hypotheses used for modelling as well as selected helpful concepts from continuum mechanics are systematically explained and the modelling is illustrated using the outcomes of numerical simulation The book is chiefly intended for researchers and graduate students providing them with a detailed description of how to model the complex physiological processes in nerve fibres

Focus on 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 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

Second International A D Sakharov Conference On Physics Igor Michailovich Dremin, Alexei M Semikhatov, 1997-04-15 At the Second International A D Sakharov Conference on Physics more than 200 physicists from many countries gathered

together to celebrate what would have been the 75th birthday of the distinguished physicist and world figure Andrei Sakharov. This tradition had begun five years earlier soon after his death. The conference was unique; it brought together leading scientists working in seemingly different fields which were nevertheless among Sakharov's interests. Participants discussed the status and perspectives of research in high energy physics, cosmology, astrophysics, classical and quantum gravity, plasma physics, nuclear physics, and extreme states of matter. The conference provided a unique opportunity for the participants to find and discuss common points of interest. The proceedings are evidence of the great variety of topics. Talks were given by distinguished physicists such as S. Drell, L. Okun, R. Wilson, A. D. Linde, C. W. Misner, N. A. Popov, S. L. Adler, B. DeWitt, M. Kaku, J. H. Schwarz, A. Zamolodchikov, and E. S. Fradkin.

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