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Jacques Prost
Editors

Solitons in Liquid Crystals



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Solitons In Liquid Crystals

Jonathan V. Selinger



Solitons In Liquid Crystals:

Solitons in Liquid Crystals Lui Lam, Jacques Prost, 2012-12-06 Solitons are a well known and intriguing aspect of nonlinear behavior in a continuous system such as a fluid a wave propagates through the medium without distortion Liquid crystals are highly ordered systems without a rigid long range structure Solitons in liquid crystals sometimes referred to as walls have a wide variety of remarkable properties that are becoming important for practical applications such as electroluminescent display This book the first review of the subject to be published contains not only surveys of the existing literature but presents new results as well Nematicons Gaetano Assanto, 2012-10-16 The first book of its kind to introduce the fundamentals basic features and models potential applications and novel phenomena and its important applications in liquid crystal technology Recognized leader in the field Gaetano Assanto outlines the peculiar characteristics of nematicons and the promise they have for the future growth of this captivating new field **Solitons in Liquid Crystals** Yuan Shen, 2022 *Solitons in Liquid Crystals* L Lam (ed), 1992 *Soliton-driven Photonics* A.D. Boardman, A.P. Sukhorukov, 2012-12-06 It is ironic that the ideas of Newton which described a beam of light as a stream of particles made it difficult for him to explain things like thin film interference Yet these particles called photons have caused the adjective photonic to gain common usage when referring to optical phenomena The purist might argue that only when we are confronted by the particle nature of light should we use the word photonics Equally the argument goes on only when we are face to face with an integrable system i.e. one that possesses an infinite number of conserved quantities should we say soliton rather than solitary wave Scientists and engineers are pragmatic however and they are happy to use the word soliton to describe what appears to be an excitation that is humped multi humped or localised long enough for some use to be made of it The fact that such solitons may stick to each other fuse upon collision is often something to celebrate for an application rather than just evidence that after all these are not really solitons in the classic sense Soliton therefore is a widely used term with the qualification that we are constantly looking out for deviant behaviour that draws our attention to its solitary wave character In the same spirit photonics is a useful generic cover all noun even when electromagnetic theory or optics would suffice Introduction to Topological Defects and Solitons Jonathan V. Selinger, 2024-10-14 This textbook introduces topological defects and solitons at a level suitable for advanced undergraduates and beginning graduate students in physics and materials science It avoids the formal mathematics of topology and instead concentrates on the physical properties of these topological structures The first half of the book concentrates on fundamental principles of defects and solitons and illustrates these principles with a single example the xy model for 2D magnetic order It begins by defining the concept of a winding number and uses this concept to describe the topology of defects vortices or disclinations and solitons domain walls carefully identifying the similarities and differences between these two types of topological structures It then goes on to discuss physical properties of defects and solitons including free energy dynamics statistical mechanics and coupling with

curvature It shows how these concepts emerge from a theory with variable magnitude of order and hence how topology can be viewed as an approximation to physics The second half goes on to explore a wider range of topological defects and solitons First it considers more complex types of order 2D nematic liquid crystals 3D magnetic or liquid crystal order 2D or 3D crystalline solids and shows how each type of order leads to specific topological structures Next it discusses defects and solitons that are characterized by 2D or 3D measuring surfaces not just 1D loops including hedgehogs skyrmions and hopfions These structures are more complex but they can still be understood using the same fundamental principles A final chapter describes the formation of phases with regular arrays of defects or solitons

Nonlinear Physics For Beginners: Fractals, Chaos, Solitons, Pattern Formation, Cellular Automata And Complex Systems Lui Lam, 1998-03-31 Almost all real systems are nonlinear For a nonlinear system the superposition principle breaks down The system's response is not proportional to the stimulus it receives the whole is more than the sum of its parts The three parts of this book contains the basics of nonlinear science with applications in physics Part I contains an overview of fractals chaos solitons pattern formation cellular automata and complex systems In Part II 14 reviews and essays by pioneers as well as 10 research articles are reprinted Part III collects 17 students projects with computer algorithms for simulation models included The book can be used for self study as a textbook for a one semester course or as supplement to other courses in linear or nonlinear systems The reader should have some knowledge in introductory college physics No mathematics beyond calculus and no computer literacy are assumed

Liquid Crystals : Optics and Applications Tomasz R. Woliński, Marc Warenghem, Shin-Tson Wu, 2005 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Voltage-Sensitive Ion Channels H. Richard Leuchtag, 2008-12-21 The goal of this book is to explore the complexity of a microscopic bit of matter that exists in a myriad of copies within our bodies the voltage sensitive ion channel We seek to investigate the way in which these macromolecules make it possible for the long fibers of our nerve and muscle cells to conduct impulses These integral components of cell membranes are marvels of nature's evolutionary adaptation To understand them we must probe the boundaries of physics and chemistry Since function is intimately related to structure we examine the molecular structure of channels focusing on physical principles that govern all matter With the application of genetic methods our knowledge of ion channels has broadened and deepened In the hope that research can help ameliorate suffering we discuss the diseases that arise from channel malfunctions due to genetic mutations This book is intended for students and scientists who are willing to travel into uncharted waters of an interdisciplinary science We approach the subject of voltage sensitive ion channels from various points of view This book seeks to give voice to the viewpoints of the physical and the biological scientist and to bridge gaps in terminology and background Readers may find this book to have

both elementary and advanced aspects For the reader trained in the biological sciences it reviews background in physics and chemistry for the reader trained in the physical sciences it reviews background in physiology and biochemistry

Modern Topics In Liquid Crystals: From Neutron Scattering Ferroelectricity Agnes Buka,1993-12-17 This volume contains 19 review articles written by leading experts in the field of neutron scattering NMR dielectric spectroscopy ferroelectricity liquid crystal polymers as well as related subjects The articles cover a broad range of topics which are currently the center of focus and interest in this field The book will be useful for experienced researchers as well as students and those who want to enter the field Apart from the fact that such a publication covers a gap in the literature there is also a personal actuality This volume will be devoted to Professor L Bata who started the liquid crystal research in Hungary some 25 years ago and who is still head of the department at KFKI today He initiated a lot of new subjects in the field and supported many young scientists during these years He is celebrating his 60th birthday this year

Solitons Mohamed Atef Helal,2022-11-12 This newly updated volume of the Encyclopedia of Complexity and Systems Science ECSS presents several mathematical models that describe this physical phenomenon including the famous non linear equation Korteweg de Vries KdV that represents the canonical form of solitons Also there exists a class of nonlinear partial differential equations that led to solitons e g Kadomtsev Petviashvili KP Klein Gordon KG Sine Gordon SG Non Linear Schr dinger NLS Korteweg de Vries Burger s KdVB etc Different linear mathematical methods can be used to solve these models analytically such as the Inverse Scattering Transformation IST Adomian Decomposition Method Variational Iteration Method VIM Homotopy Analysis Method HAM and Homotopy Perturbation Method HPM Other non analytic methods use the computational techniques available in such popular mathematical packages as Mathematica Maple and MATLAB The main purpose of this volume is to provide physicists engineers and their students with the proper methods and tools to solve the soliton equations and to discover the new possibilities of using solitons in multi disciplinary areas ranging from telecommunications to biology cosmology and oceanographic studies

Visions Of Nonlinear Science In The 21st Century Wai-kai Chen,Jose L Huertas,Rabinder N Madan,1999-07-03 Authoritative and visionary this festschrift features 12 highly readable expositions of virtually all currently active aspects of nonlinear science It has been painstakingly researched and written by leading scientists and eminent expositors including L Shilnikov R Seydel I Prigogine W Porod C Mira M Lakshmanan W Lauterborn A Holden H Haken C Grebogi E Doedel and L Chua each chapter addresses a current and intensively researched area of nonlinear science and chaos including nonlinear dynamics mathematics numerics and technology Handsomely produced with high resolution color graphics for enhanced readability this book has been carefully written at a high level of exposition and is somewhat self contained Each chapter includes a tutorial and background information as well as a survey of each area s main results and state of the art Of special interest to both beginners and seasoned researchers is the identification of future trends and challenging yet tractable problems that are likely to be solved before the end of the 21st century The visionary and

provocative nature of this book makes it a valuable and lasting reference

Scimat Anthology: Histophysics, Art, Philosophy, Science Lui Lam, 2024-08-16 Scimat science of human is a new multidiscipline proposed by Lui Lam in 2007 Scimat treats all studies on human as a unified enterprise In terms of content Scimat Humanities Social Science Medical Science Scimat advocates the use of humanities science synthesis in understanding humans and collaboration between the humanists and natural scientists The ultimate aim of Scimat is to better humanity by bettering the humanities It has done so in the study of history art philosophy and science giving rise to some interesting and important results such as the appearance of a new discipline called Histophysics physics of history a new interpretation of art s origin and nature a better understanding of the differences between the philosophies of the West and East and a rigorous definition of science Scimat Anthology collects 27 original articles in the humanities published or unpublished from 2000 to 2024 with 26 by the founder of Scimat ending with an in depth analysis of Stephen Hawking and his legacy Readership ranges from high school students and laypeople to professors of all disciplines who are interested in what the humanities and science are about as well as new ideas in bridging them

All About Science: Philosophy, History, Sociology & Communication Lui Lam, Maria Burguete, 2014-10-15 There is a lot of confusion and misconception concerning science The nature and contents of science is an unsettled problem For example Thales of 2 600 years ago is recognized as the father of science but the word science was introduced only in the 14th century the definition of science is often avoided in books about philosophy of science This book aims to clear up all these confusions and present new developments in the philosophy history sociology and communication of science It also aims to showcase the achievement of China s top scholars in these areas The 18 chapters divided into five parts are written by prominent scholars including the Nobel laureate Robin Warren sociologist Harry Collins and physicist turned historian Dietrich Stauffer

Localized States in Physics: Solitons and Patterns Orazio Descalzi, Marcel Clerc, Stefania Residori, Gaetano Assanto, 2011-01-06 Systems driven far from thermodynamic equilibrium can create dissipative structures through the spontaneous breaking of symmetries A particularly fascinating feature of these pattern forming systems is their tendency to produce spatially confined states These localized wave packets can exist as propagating entities through space and or time Various examples of such systems will be dealt with in this book including localized states in fluids chemical reactions on surfaces neural networks optical systems granular systems population models and Bose Einstein condensates This book should appeal to all physicists mathematicians and electrical engineers interested in localization in far from equilibrium systems The authors all recognized experts in their fields strive to achieve a balance between theoretical and experimental considerations thereby giving an overview of fascinating physical principles their manifestations in diverse systems and the novel technical applications on the horizon

Advances in Nonlinear Optics Xianfeng Chen, Guoquan Zhang, Heping Zeng, Qi Guo, Weilong She, 2014-12-16 This book presents an overview of the state of the art of the developing topic of nonlinear optics with contributions from leading experts in the field in China ranging from

weak light nonlinear optics ultrafast nonlinear optics to electro optical theory and applications In the past decade nonlinear optics has evolved into many different branches depending on the form of the material used for studying the nonlinear phenomena The growth of research in nonlinear optics is closely linked to the rapid technological advances that have occurred in related fields such as ultra fast phenomena and optical communications Nonlinear optics activities range from the fundamental studies of the interaction between matter and radiation to the development of devices components and systems of tremendous commercial interest for widespread applications in optical telecommunications medicine and biotechnology This book reviews the development of some nonlinear optics researches in China not only the discovery of new principles but also potential applications of nonlinear optics for various industries *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 re transmitted 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 *Progress in Optics* ,2009-01-06 In the forty seven years that have gone by since the first volume of Progress in Optics was published optics has become one of the most dynamic fields of science The volumes in this series which have appeared up to now contain more than 300 review articles by distinguished research workers which have become permanent records for many important developments Backscattering and Anderson localization of light Advances in soliton manipulation in optical lattices Fundamental quantum noise in optical amplification Invisibility cloaks *Nonlinear Waves in Elastic Crystals* Gérard A. Maugin, 1999 The mathematical modelling of changing structures in materials is of increasing importance to industry where applications of the theory are found in subjects as diverse as aerospace and medicine This book deals with aspects of the nonlinear dynamics of deformable ordered solids known as elastic crystals where the nonlinear effects

combine or compete with each other Physical and mathematical models are discussed and computational aspects are also included Different models are considered on discrete as well as continuum scales applying heat electricity or magnetism to the crystal structure and these are analysed using the equations of rational mechanics In this way the student is introduced to the important equations of nonlinear science that describe shock waves solitons and chaos and also the non exactly integrable systems or partial differential equations A large number of problems and examples are included many taken from recent research and involving both one dimensional and two dimensional problems as well as some coupled degrees of freedom

Trends in Lasers and Electro-optics Research William T. Arkin, 2006 This new book gathers leading research from throughout the world

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