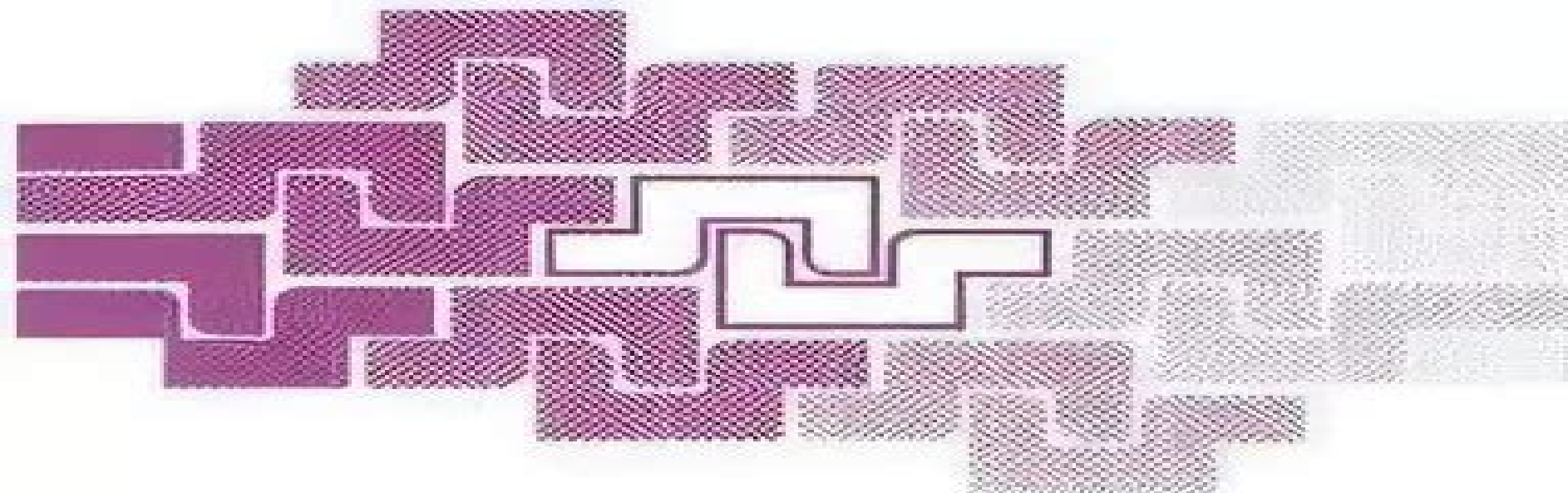




Nematics

Mathematical and Physical Aspects

Edited by

**Jean-Michel Coron, Jean-Michel Ghidaglia
and Frédéric Hélein**

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Nematics Mathematical And Physical Aspects

Agnes Buka, Lorenz Kramer



Nematics Mathematical And Physical Aspects:

Nematics Jean-Michel Coron, Jean-Michel Ghidaglia, Frédéric Hélein, 2012-12-06 This volume *Nematics Mathematical and Physical Aspects* constitutes the proceedings of a workshop which was held at l Université de Paris Sud Orsay in May 1990 This meeting was an Advanced Research Workshop sponsored by NATO We gratefully acknowledge the help and support of the NATO Science Committee Additional support has been provided by the Ministère des affaires étrangères Paris and by the Direction des Recherches et Etudes Techniques Paris Also logistic support has been provided by the Association des Numericiens d Orsay These proceedings are published in the framework of the Contrat DRET W 90 316 AOOO v Contents FOREWORD v INTRODUCTION 1 M CORON 1 M GHIDAGLIA F HELEIN xi AN ENERGY DECREASING ALGORITHM FOR HARMONIC MAPS F ALOUGES 1 A COHOMOLOGICAL CRITERION FOR DENSITY OF SMOOTH MAPS IN SOBOLEV SPACES BETWEEN TWO MANIFOLDS F BETHUEL 1 M CORON F DEMENGEL F HELEIN 15 ON THE MATHEMATICAL MODELING OF TEXTURES IN POLYMERIC LIQUID CRYSTALS M C CAMERER 25 A RESULT ON THE GLOBAL EXISTENCE FOR HEAT FLOWS OF HARMONIC MAPS FROM D^2 INTO S^2 K C CHANG W Y DING 37 BLOW UP ANALYSIS FOR HEAT FLOW OF HARMONIC MAPS Y CHEN 49 T AYLOR COUETTE INSTABILITY IN NEMATIC LIQUID CRYSTALS P E CIADIS 65 ON A CLASS OF SOLUTIONS IN THE THEORY OF NEMATIC PHASES B D COLEMAN 1 T JENKINS 93 RHEOLOGY OF THERMOTROPIC NEMATIC LIQUID CRYSTALLINE POLYMERS M M DENN 1 A *Adsorption Phenomena and Anchoring Energy in Nematic Liquid Crystals* Giovanni Barbero, Luiz Roberto Evangelista, 2005-07-28 Despite the large quantity of phenomenological information concerning the bulk properties of nematic phase liquid crystals little is understood about the origin of the surface energy particularly the surface interfacial and anchoring properties of liquid crystals that affect the performance of liquid crystal devices Self contained and unique *Variational Theories for Liquid Crystals* E.G. Virga, 2018-12-12 Essentially there are two variational theories of liquid crystals explained in this book The theory put forward by Zocher Oseen and Frank is classical while that proposed by Ericksen is newer in its mathematical formulation although it has been postulated in the physical literature for the past two decades The newer theory provides a better explanation of defects in liquid crystals especially of those concentrated on lines and surfaces which escape the scope of the classical theory The book opens the way to the wealth of applications that will follow **Cartesian Currents in the Calculus of Variations I** Mariano Giaquinta, Giuseppe Modica, Jiri Soucek, 1998-08-19 This monograph in two volumes deals with non scalar variational problems arising in geometry as harmonic mappings between Riemannian manifolds and minimal graphs and in physics as stable equilibrium configurations in nonlinear elasticity or for liquid crystals The presentation is selfcontained and accessible to non specialists Topics are treated as far as possible in an elementary way illustrating results with simple examples in principle chapters and even sections are readable independently of the general context so that parts can be easily used for graduate courses Open questions are often mentioned and the final section of each chapter discusses

references to the literature and sometimes supplementary results Finally a detailed Table of Contents and an extensive Index are of help to consult this monograph

Composite Media And Homogenization Theory: Proceedings Of The Second Workshop Gianni Dal Maso, G Dell'antonio, 1995-09-30 A rigorous mathematical treatment of the properties of composite materials has been made possible by recent mathematical results in the fields of partial differential equations and the calculus of variations The progress in the mathematical models for composite media has led to a deeper understanding of the overall behaviour of composite structures and to significant applications in physics and engineering including a new approach to optimal design problems Many new relevant results are presented in this volume which contains 16 invited papers from the Second Workshop on Composite Media and Homogenization Theory held at the International Centre for Theoretical Physics in Trieste Italy from September 20 to October 1 1993 Topics include homogenization of problems singularly depending on small or large parameters homogenization of nonlinear problems optimal bounds for effective moduli asymptotic analysis of problems in perforated domains laminate structures in phase transitions optimal design and relaxation Mathematicians and engineers interested in mathematical models of composite materials will find this book to be an important reference

Cartesian Currents in the Calculus of Variations II Mariano Giaquinta, Giuseppe Modica, Jiri Soucek, 1998-08-19 This monograph in two volumes deals with non scalar variational problems arising in geometry as harmonic mappings between Riemannian manifolds and minimal graphs and in physics as stable equilibrium configurations in nonlinear elasticity or for liquid crystals The presentation is selfcontained and accessible to non specialists Topics are treated as far as possible in an elementary way illustrating results with simple examples in principle chapters and even sections are readable independently of the general context so that parts can be easily used for graduate courses Open questions are often mentioned and the final section of each chapter discusses references to the literature and sometimes supplementary results Finally a detailed Table of Contents and an extensive Index are of help to consult this monograph

Mathematical Research in Materials Science National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Committee on Mathematical Sciences Applied to Materials Science, 1993-02-01 This book describes fruitful past collaborations between the mathematical and materials sciences and indicates future challenges It seeks both to encourage mathematical sciences research that will complement vital research in materials science and to raise awareness of the value of quantitative methods The volume encourages both communities to increase cross disciplinary collaborations emphasizing that each has much to gain from such an increase and it presents recommendations for facilitating such work This book is written for both mathematical and materials science researchers interested in advancing research at this interface for federal and state agency representatives interested in encouraging such collaborations and for anyone wanting information on how such cross disciplinary collaborative efforts can be accomplished successfully

Pattern Formation in Liquid Crystals Agnes Buka, Lorenz Kramer, 2012-12-06 In the last 20 years the study of

nonlinear nonequilibrium phenomena in spatially extended systems with particular emphasis on pattern forming phenomena has been one of the very active areas in physics exhibiting interesting ramifications into other sciences During this time the study of the classic systems like Rayleigh Benard convection and Taylor vortex flow in simple fluids has also been supplemented by the study of more complex systems Here liquid crystals have played and are still playing a major role One might say that liquid crystals provide just the right amount and right kind of complexity They are full of nonlinearities and give rise to new symmetry classes which are sometimes actually simpler to deal with qualitatively but they still allow a quantitative description of experiments in many cases In fact one of the attractions of the field is the close contact between experimentalists and theorists Hydrodynamic instabilities in liquid crystals had already experienced a period of intense study in the late 1960s and early 1970s but at that time neither the experimental and theoretical tools nor the concepts had been developed sufficiently far to address the questions that have since been found to be of particular interest The renewed interest is also evidenced by the fact that a new series of workshops has evolved The first one took place in 1989 in Bayreuth and united participants from almost all groups working in pattern formation in liquid crystals

Evolution of Spontaneous Structures in Dissipative Continuous Systems Friedrich H. Busse, Stefan C. Müller, 2003-07-01 In the decades the of the formation of structures past subject spontaneous in far from has into a branch of systems equilibrium major physics grown search with ties to It has become evident that strong neighboring disciplines a diverse of can be understood within a common mathematical framework which has been called nonlinear of continuous dynamics This name the close to the field of nonlinear systems emphasizes relationship of with few of freedom which has evolved into a dynamics systems degrees mature in the recent features mathematically subject past Many dynamical of continuous be described reduction few can a to a systems actually through of freedom and of the latter of continue to degrees properties type systems of continuous the inspire study systems The of this book is to demonstrate the numerous goal through examples that exist for the of nonlinear the opportunities study phenomena through tools of mathematical and use of common analyses dynamical interpretations Instead of overview of the a providing comprehensive rapidly evolving field the contributors to this book are to communicate to a wide scientific trying audience the of what have learnt about the formation of essence they spontaneous structures in continuous and about the dissipative systems competition between order and chaos that characterizes these It is that systems hoped the book will be even to those scientists whose not helpful are disciplines the authors

Variational Approach to Hyperbolic Free Boundary Problems Seiro Omata, Karel Svadlenka, Elliott Ginder, 2022-11-28 This volume is devoted to the study of hyperbolic free boundary problems possessing variational structure Such problems can be used to model among others oscillatory motion of a droplet on a surface or bouncing of an elastic body against a rigid obstacle In the case of the droplet for example the membrane surrounding the fluid in general forms a positive contact angle with the obstacle and therefore the second derivative is only a measure at the contact free boundary set We

will show how to derive the mathematical problem for a few physical systems starting from the action functional discuss the mathematical theory and introduce methods for its numerical solution The mathematical theory and numerical methods depart from the classical approaches in that they are based on semi discretization in time which facilitates the application of the modern theory of calculus of variations Progress in Partial Differential Equations Michel Chipot,J Saint Jean Paulin,I Shafir,1995-05-15 Presents some recent advances in various important domains of partial differential equations and applied mathematics including harmonic maps Ginzburg Landau energy liquid crystals superconductivity homogenization and oscillations dynamical systems and inertial manifolds These topics are now part of various areas of science and have experienced tremendous development during the last decades *Spatio-Temporal Pattern Formation* Daniel Walgraef,2012-12-06 Spatio temporal patterns appear almost everywhere in nature and their description and understanding still raise important and basic questions However if one looks back 20 or 30 years definite progress has been made in the modeling of instabilities analysis of the dynamics in their vicinity pattern formation and stability quantitative experimental and numerical analysis of patterns and so on Universal behaviors of complex systems close to instabilities have been determined leading to the wide interdisciplinarity of a field that is now referred to as nonlinear science or science of complexity and in which initial concepts of dissipative structures or synergetics are deeply rooted In pioneering domains related to hydrodynamics or chemical instabilities the interactions between experimentalists and theoreticians sometimes on a daily basis have been a key to progress Everyone in the field praises the role played by the interactions and permanent feedbacks between experimental numerical and analytical studies in the achievements obtained during these years Many aspects of convective patterns in normal fluids binary mixtures or liquid crystals are now understood and described in this framework The generic presence of defects in extended systems is now well established and has induced new developments in the physics of laser with large Fresnel numbers Last but not least almost 40 years after his celebrated paper Turing structures have finally been obtained in real life chemical reactors triggering anew intense activity in the field of reaction diffusion systems *Nonlinear Dispersive Waves and Fluids* Avy Soffer,2019-03-12 This volume contains the proceedings of the AMS Special Session on Spectral Calculus and Quasilinear Partial Differential Equations and the AMS Special Session on PDE Analysis on Fluid Flows which were held in January 2017 in Atlanta Georgia These two sessions shared the underlying theme of the analysis aspect of evolutionary PDEs and mathematical physics The articles address the latest trends and perspectives in the area of nonlinear dispersive equations and fluid flows The topics mainly focus on using state of the art methods and techniques to investigate problems of depth and richness arising in quantum mechanics general relativity and fluid dynamics The Cumulative Book Index ,1991 A world list of books in the English language **Nonlinear and Convex Analysis in Economic Theory** Toru Maruyama,Wataru Takahashi,2012-12-06 The papers collected in this volume are contributions to T I Tech K E S Conference on Nonlinear and Convex Analysis in Economic Theory which was held at Keio

University July 24 1993 The conference was organized by Tokyo Institute of Technology T I Tech and the Keio Economic Society K E S and supported by Nihon Keizai Shimbun Inc A lot of economic problems can be formulated as constrained optimizations and equilibrations of their solutions Nonlinear convex analysis has been supplying economists with indispensable mathematical machineries for these problems arising in economic theory Conversely mathematicians working in this discipline of analysis have been stimulated by various mathematical difficulties raised by economic theories Although our special emphasis was laid upon nonlinearity and convexity in relation with economic theories we also incorporated stochastic aspects of financial economics in our project taking account of the remarkable rapid growth of this discipline during the last decade The conference was designed to bring together those mathematicians who were seriously interested in getting new challenging stimuli from economic theories with those economists who were seeking for effective mathematical weapons for their researches Thirty invited talks six of them were plenary talks given at the conference were roughly classified under the following six headings 1 Nonlinear Dynamical Systems and Business Fluctuations 2 Fixed Point Theory 3 Convex Analysis and Optimization 4 Eigenvalue of Positive Operators 5 Stochastic Analysis and Financial Market 6 General Equilibrium Analysis

Computational Micromagnetism Andreas Prohl, 2013-11-11 The objective of this monograph is a numerical analysis of the well accepted models of Landau Lifshitz and Gilbert for electrically conducting ferromagnets Part I discusses convergence behavior of different finite element schemes for solving the stationary problem Part II deals with numerical analyses of different penalization projection strategies in nonstationary micromagnetism it closes with a chapter on nematic liquid crystals to show applicability of these new methods to further applications

Physical Review, 2000-06 Publishes papers that report results of research in statistical physics plasmas fluids and related interdisciplinary topics There are sections on 1 methods of statistical physics 2 classical fluids 3 liquid crystals 4 diffusion limited aggregation and dendritic growth 5 biological physics 6 plasma physics 7 physics of beams 8 classical physics including nonlinear media and 9 computational physics

Infrared and Raman Spectroscopy Bernhard Schrader, 2008-09-26 This book is an excellent introduction to vibrational spectroscopy for scientists in academia and industry Both infrared and Raman spectroscopy are covered comprehensively and up to date Therefore the book may also be used as a handbook for easy reference Written in the language of chemists it explains the basic theory and instrumentation the interpretation and evaluation of spectra Furthermore numerous worked out examples of practical applications are presented Therefore the reader is enabled to apply infrared and Raman spectroscopy for solving his own problem and to design suitable experimental procedures This book also serves as a guide to the relevant literature

Pattern Formation In Complex Dissipative Systems: Fluid Patterns, Liquid Crystals, Chemical Reactions S Kai, 1992-09-15 In this volume the problems of pattern formation in physics chemistry and other related fields in complex and nonlinear dissipative systems are studied Main subjects discussed are formation mechanisms properties statistics characterization and dynamics of periodic and nonperiodic patterns in the

electrohydrodynamics in liquid crystals Rayleigh Benard convection crystallization viscous fingering and Belousov
Zhabotinsky chemical reaction Recent developments in topological and defect mediated chaos chaos in systems with large
degrees of freedom and turbulence turbulence transitions are also discussed **New Technical Books** New York Public
Library, 1992

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