J.E. Dunn   Roger Fosdick   Marshall Slemrod

Editors

Shock Induced Transitions and Phase Structures in General Media

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Paul Steinmann,Gérard A. Maugin

Shock Induced Transitions And Phase Structures In General Media:

Shock Induced Transitions and Phase Structures in General Media J.E. Dunn,Roger Fosdick,Marshall Slemrod,2012-12-06 This IMA Volume in Mathematics and its Applications SHOCK INDUCED TRANSITIONS AND PHASE STRUCTURES IN GENERAL MEDIA is based on the proceedings of a workshop that was an integral part of the 1990 91 IMA program on Phase Transitions and Free Boundaries The workshop focused on the thermodynamics and mechanics of dynamic phase transitions that are mainly inertially driven and brought together physicists metallurgists mathematicians engineers and molecular dynamicists with interests in these problems Financial support of the National Science Foundation made the meeting pos sible We are grateful to J E Dunn Roger Fosdick and Marshall Slemrod for organizing the meeting and editing the proceedings A vner Friedman Willard Miller Jr PREFACE When a body is subjected to a strong shock the material may suffer severe local structural changes Rapid solidification liquification or vaporization can oc cur and moreover complex structural heterogeneity is often left in the wake of the passing wave Thus inertially driven shock waves raise fundamental questions involving experiment theory and mathematics which bear on phase stability and metastability as well as on reaction kinetics and appropriate measures of phase structure *The Mechanics and Thermodynamics of Continuous Media* Miroslav Silhavy,2013-11-27 This book presents the nonlinear theories of continuum thermomechanics Through out 1 emphasize issues that are foundational in nature and seek results common to materials of arbitrary symmetry The central part of the book deals with thermoelastic bodies with heat conduction and viscosity including the inviscid or ideal dissipation less bodies A surprising variety of phenomena can be modeled within this frame work Moreover the main ideas can be transferred into more complicated theories At present the major challenge to the non linear thermoelasticity is posed by phase transformations with changes in symmetry 1 W Gibbs immensely inftuen tiaI treatise On the equilibrium of heterogeneous substances has provided a highly successful theory of phase transitions in ftuids Gibbs brought the view that the ther modynamics is not only the theory of heat but also a theory of equilibrium with the of the book is an extension of main tool the minimum principles A large portion Gibbs ideas to bodies of general symmetry by the methods of the calculus of varia tions The interplay between the convexity properties of the stored energy functions the resulting equations and the physics of the phenomena is a leading theme *Acoustic Interactions with Submerged Elastic Structures: Propagation, ocean acoustics, and scattering : a Herbert □berall festschrift volume* Ard□shir Guran,Herbert □berall,1996 The interaction of acoustic fields with submerged elastic structures both by propagation and scattering is being investigated at various institutions and laboratories world wide with ever increasing sophistication of experiments and analysis This book offers a collection of contributions from these research centers that represent the present state of the art in the study of acoustic elastic interaction being on the cutting edge of these investigations This includes the description of acoustic scattering from submerged elastic objects and shells by the Resonance Scattering Theory of Flax Dragonette and berall and the interaction of

these phenomena in terms of interface waves It also includes the use of this theory for the purpose of inverse scattering i e the determination of the scattered objects properties from the received acoustic backscattered signals The problem of acoustically excited waves in inhomogeneous and anisotropic materials and of inhomogeneous propagating waves is considered Vibrations and resonances of elastic shells including shells with various kinds of internal attachments are analyzed Acoustic scattering experiments are described in the time domain and on the basis of the Wigner Ville distribution Acoustic propagation in the water column over elastic boundaries is studied experimentally both in laboratory tanks and in the field and is analyzed theoretically Ultrasonic nondestructive testing including such aspects like probe modelling scattering by various types of cracks receiving probes and calibration by a side drilled hole is also studied in details A comprehensive picture of these complex phenomena and other aspects is presented in the book by researchers that are experts in each of these domains giving up to date accounts of the field in all these aspects   *Mechanics of Material Forces* Paul Steinmann,Gérard A. Maugin,2006-01-20 The notion dealt with in this volume of proceedings is often traced back to the late 19th century writings of a rather obscure scientist C V Burton A probable reason for this is that the painstaking de ciphering of this author s paper in the Philosophical Magazine Vol 33 pp 191 204 1891 seems to reveal a notion that was introduced in math ematical form much later that of local structural rearrangement This notion obviously takes place on the material manifold of modern con tinuum mechanics It is more or less clear that seemingly different phe nomena phase transition local destruction of matter in the form of the loss of local ordering such as in the appearance of structural defects or of the loss of cohesion by the appearance of damage or the exten sion of cracks plasticity material growth in the bulk or at the surface by accretion wear and the production of debris should enter a com mon framework where by pure logic the material manifold has to play a prominent role Finding the mathematical formulation for this was one of the great achievements of J D Eshelby He was led to consider the apparent but true motion or displacement of embedded material inhomogeneities and thus he began to investigate the driving force causing this motion or displacement something any good mechanician would naturally introduce through the duahty inherent in mechanics since J L d Alembert   **Natural Locomotion in Fluids and on Surfaces** Stephen Childress,Anette Hosoi,William W. Schultz,Jane Wang,2012-08-14 This volume developed from a Workshop on Natural Locomotion in Fluids and on Surfaces Swimming Flying and Sliding which was held at the Institute for Mathematics and its Applications IMA at the University of Minnesota from June 1 5 2010 The subject matter ranged widely from observational data to theoretical mechanics and reflected the broad scope of the workshop In both the prepared presentations and in the informal discussions the workshop engaged exchanges across disciplines and invited a lively interaction between modelers and observers The articles in this volume were invited and fully refereed They provide a representative if necessarily incomplete account of the field of natural locomotion during a period of rapid growth and expansion The papers presented at the workshop and the contributions to the present volume can be

roughly divided into those pertaining to swimming on the scale of marine organisms swimming of microorganisms at low Reynolds numbers animal flight and sliding and other related examples of locomotion **Control and Optimal Design of Distributed Parameter Systems** John E. Lagnese,David L. Russell,Luther W. White,2012-12-06 The articles in this volume focus on control theory of systems governed by nonlinear linear partial differential equations identification and optimal design of such systems and modelling of advanced materials Optimal design of systems governed by PDEs is a relatively new area of study now particularly relevant because of interest in optimization of fluid flow in domains of variable configuration advanced and composite materials studies and smart materials which include possibilities for built in sensing and control actuation The book will be of interest to both applied mathematicians and to engineers **Towards Higher Categories** John C. Baez,J. Peter May,2009-09-24 The purpose of this book is to give background for those who would like to delve into some higher category theory It is not a primer on higher category theory itself It begins with a paper by John Baez and Michael Shulman which explores informally by analogy and direct connection how cohomology and other tools of algebraic topology are seen through the eyes of n category theory The idea is to give some of the motivations behind this subject There are then two survey articles by Julie Bergner and Simona Paoli about infinity 1 categories and about the algebraic modelling of homotopy n types These are areas that are particularly well understood and where a fully integrated theory exists The main focus of the book is on the richness to be found in the theory of bicategories which gives the essential starting point towards the understanding of higher categorical structures An article by Stephen Lack gives a thorough but informal guide to this theory A paper by Larry Breen on the theory of gerbes shows how such categorical structures appear in differential geometry This book is dedicated to Max Kelly the founder of the Australian school of category theory and an historical paper by Ross Street describes its development Nonlinear Conservation Laws and Applications Alberto Bressan,Gui-Qiang G. Chen,Marta Lewicka,Dehua Wang,2011-04-19 This volume contains the proceedings of the Summer Program on Nonlinear Conservation Laws and Applications held at the IMA on July 13 31 2009 Hyperbolic conservation laws is a classical subject which has experienced vigorous growth in recent years The present collection provides a timely survey of the state of the art in this exciting field and a comprehensive outlook on open problems Contributions of more theoretical nature cover the following topics global existence and uniqueness theory of one dimensional systems multidimensional conservation laws in several space variables and approximations of their solutions mathematical analysis of fluid motion stability and dynamics of viscous shock waves singular limits for viscous systems basic principles in the modeling of turbulent mixing transonic flows past an obstacle and a fluid dynamic approach for isometric embedding in geometry models of nonlinear elasticity the Monge problem and transport equations with rough coefficients In addition there are a number of papers devoted to applications These include models of blood flow self gravitating compressible fluids granular flow charge transport in fluids and the modeling and control of traffic flow on networks *Systems and Control Theory for Power Systems* Joe H. Chow,Petar V.

Kokotovic,Robert J. Thomas,1995-02-24 The articles in this volume cover power system model reduction transient and voltage stability nonlinear control robust stability computation and optimization and have been written by some of the leading researchers in these areas This book should be of interest to power and control engineers and applied mathematicians **Mathematics in Industrial Problems** Avner Friedman,2012-12-06 This is the seventh volume in the series Mathematics in Industrial Prob lems The motivation for these volumes is to foster interaction between Industry and Mathematics at the grass roots level that is at the level of specific problems These problems come from Industry they arise from models developed by the industrial scientists in ventures directed at the manufacture of new or improved products At the same time these prob lems have the potential for mathematical challenge and novelty To identify such problems I have visited industries and had discussions with their scientists Some of the scientists have subsequently presented their problems in the IMA Seminar on Industrial Problems The book is based on the seminar presentations and on questions raised in subse quent discussions Each chapter is devoted to one of the talks and is self contained The chapters usually provide references to the mathematical literature and a list of open problems which are of interest to the industrial scientists For some problems a partial solution is indicated briefly The last chapter of the book contains a short description of solutions to some of the problems raised in previous volumes as well as references to papers in which such solutions have been published The speakers in the Seminar on Industrial Problems have given us at the IMA hours of delight and discovery My thanks to David K Lambert Gen eral Motors Research and Development David S **Flow Control** Max D. Gunzburger,2012-12-06 The articles in this volume cover recent work in the area of flow control from the point of view of both engineers and mathematicians These writings are especially timely as they coincide with the emergence of the role of mathematics and systematic engineering analysis in flow control and optimization Recently this role has significantly expanded to the point where now sophisticated mathematical and computational tools are being increasingly applied to the control and optimization of fluid flows These articles document some important work that has gone on to influence the practical everyday design of flows moreover they represent the state of the art in the formulation analysis and computation of flow control problems This volume will be of interest to both applied mathematicians and to engineers **Discrete Probability and Algorithms** David Aldous,Persi Diaconis,Joel Spencer,J. Michael Steele,2012-12-06 Discrete probability theory and the theory of algorithms have become close partners over the last ten years though the roots of this partnership go back much longer The papers in this volume address the latest developments in this active field They are from the IMA Workshops Probability and Algorithms and The Finite Markov Chain Renaissance They represent the current thinking of many of the world s leading experts in the field Researchers and graduate students in probability computer science combinatorics and optimization theory will all be interested in this collection of articles The techniques developed and surveyed in this volume are still undergoing rapid development and many of the articles of the collection offer an expositionally pleasant entree into a

research area of growing importance **Linear Algebra for Signal Processing** Adam Bojanczyk,George Cybenko,2012-12-06 Signal processing applications have burgeoned in the past decade During the same time signal processing techniques have matured rapidly and now include tools from many areas of mathematics computer science physics and engineering This trend will continue as many new signal processing applications are opening up in consumer products and communications systems In particular signal processing has been making increasingly sophisticated use of linear algebra on both theoretical and algorithmic fronts This volume gives particular emphasis to exposing broader contexts of the signal processing problems so that the impact of algorithms and hardware can be better understood it brings together the writings of signal processing engineers computer engineers and applied linear algebraists in an exchange of problems theories and techniques This volume will be of interest to both applied mathematicians and engineers **Modeling, Mesh Generation, and Adaptive Numerical Methods for Partial Differential Equations** Ivo Babuska,Joseph E. Flaherty,William D. Henshaw,John E. Hopcroft,Joseph E. Oliger,Tayfun Tezduyar,2012-12-06 With considerations such as complex dimensional geometries and nonlinearity the computational solution of partial differential systems has become so involved that it is important to automate decisions that have been normally left to the individual This book covers such decisions 1 mesh generation with links to the software generating the domain geometry 2 solution accuracy and reliability with mesh selection linked to solution generation This book is suited for mathematicians computer scientists and engineers and is intended to encourage interdisciplinary interaction between the diverse groups *Discrete Event Systems, Manufacturing Systems, and Communication Networks* P.R. Kumar,P.P. Varaiya,2012-12-06 This IMA Volume in Mathematics and its Applications DISCRETE EVENT SYSTEMS MANUFACTURING SYSTEMS AND COMMUNICATION NETWORKS is based on the proceedings of a workshop that was an integral part of the 1992 93 IMA program on Control Theory The study of discrete event dynamical systems DEDS has become rapidly popular among researchers in systems and control in communication networks in manufacturing and in distributed computing This development has created problems for re searchers and potential consumers of the research The first problem is the veritable Babel of languages formalisms and approaches which makes it very difficult to determine the commonalities and distinctions among the competing schools of approaches The second related problem arises from the different traditions paradigms values and experience that scholars bring to their study of DEDS depending on whether they come from control com munication computer science or mathematical logic As a result intellectual exchange among scholars becomes compromised by unexplicated assumptions The purpose of the Workshop was to promote exchange among scholars representing some of the major schools of thought in DEDS with the hope that 1 greater clarity will be achieved thereby and 2 cross fertilization will lead to more fruitful questions We thank P R Kumar and P P Varaiya for organizing the workshop and editing the proceedings We also take this opportunity to thank the National Science Foundation and the Army Research Office whose financial support made the

workshop possible A vner Friedman Willard Miller Jr   Linear Algebra for Control Theory Paul Van Dooren,Bostwick Wyman,2012-12-06 During the past decade the interaction between control theory and linear algebra has been ever increasing giving rise to new results in both areas As a natural outflow of this research this book presents information on this interdisciplinary area The cross fertilization between control and linear algebra can be found in subfields such as Numerical Linear Algebra Canonical Forms Ring theoretic Methods Matrix Theory and Robust Control This book s editors were challenged to present the latest results in these areas and to find points of common interest This volume reflects very nicely the interaction the range of topics seems very wide indeed but the basic problems and techniques are always closely connected And the common denominator in all of this is of course linear algebra This book is suitable for both mathematicians and students   Robust Control Theory Bruce A. Francis,Pramod P. Khargonekar,2012-12-06 Robust control originates with the need to cope with systems with modeling uncertainty There have been several mathematical techniques developed for robust control system analysis The articles in this volume cover all of the major research directions in the field   Hamiltonian Dynamical Systems H.S. Dumas,K.R. Meyer,D.S. Schmidt,1995-03-10 From its origins nearly two centuries ago Hamiltonian dynamics has grown to embrace the physics of nearly all systems that evolve without dissipation as well as a number of branches of mathematics some of which were literally created along the way This volume contains the proceedings of the International Conference on Hamiltonian Dynamical Systems its contents reflect the wide scope and increasing influence of Hamiltonian methods with contributions from a whole spectrum of researchers in mathematics and physics from more than half a dozen countries as well as several researchers in the history of science With the inclusion of several historical articles this volume is not only a slice of state of the art methodology in Hamiltonian dynamics but also a slice of the bigger picture in which that methodology is imbedded   **Mixed Integer Nonlinear Programming** Jon Lee,Sven Leyffer,2011-12-02 Many engineering operations and scientific applications include a mixture of discrete and continuous decision variables and nonlinear relationships involving the decision variables that have a pronounced effect on the set of feasible and optimal solutions Mixed integer nonlinear programming MINLP problems combine the numerical difficulties of handling nonlinear functions with the challenge of optimizing in the context of nonconvex functions and discrete variables MINLP is one of the most flexible modeling paradigms available for optimization but because its scope is so broad in the most general cases it is hopelessly intractable Nonetheless an expanding body of researchers and practitioners including chemical engineers operations researchers industrial engineers mechanical engineers economists statisticians computer scientists operations managers and mathematical programmers are interested in solving large scale MINLP instances   Nonlinear Stochastic PDEs Tadahisa Funaki,Wojbor Woyczynski,2012-12-06 This IMA Volume in Mathematics and its Applications NONLINEAR STOCHASTIC PDEs HYDRODYNAMIC LIMIT AND BURGERS TURBULENCE is based on the proceedings of the period of concentration on Stochas tic Methods for Nonlinear PDEs which was an integral part of the 1993 94 IMA program

on Emerging Applications of Probability We thank Tadahisa Funaki and Wojbor A Woyczynski for organizing this meeting and for editing the proceedings We also take this opportunity to thank the National Science Foundation and the Army Research Office whose financial support made this workshop possible A vner Friedman Willard Miller Jr xiii PREFACE A workshop on Nonlinear Stochastic Partial Differential Equations was held during the week of March 21 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 selection of topics reflected personal interests of the organizers with two areas of emphasis the hydrodynamic limit problems and Burgers turbulence and related models The talks and the papers appearing in this volume reflect a number of research directions that are currently pursued in these areas

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