

George F. Carnevale
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Editors

Nonlinear Phenomena in Atmospheric and Oceanic Sciences



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David Aldous, Robin Pemantle



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Pierrehumbert, 1992-06-18 This IMA Volume in Mathematics and its Applications NONLINEAR PHENOMENA IN ATMOSPHERIC AND OCEANIC SCIENCES is based on the proceedings of a workshop which was an integral part of the 1989 90 IMA program on Dynamical Systems and their Applications The aim of this workshop was to promote cross fertilization of ideas between investigators who are using nonlinear dynamical systems and numerical simulations to study the earth s atmosphere and oceans We thank George F Carnevale Shui Nee Chow Martin Golubitsky Richard McGehee Raymond Pierrehumbert and George R Sell for organizing the meeting We especially thank George F Carnevale and Raymond Pierrehumbert for editing the proceedings We also take this opportunity to thank those agencies whose financial support made the workshop possible the Army Research Office the Minnesota Supercomputer Institute the National Science Foundation and the Office of Naval Research A vner Friedman Willard Miller Jr PREFACE When we took on this project we did not realize we were organizing a workshop on two dimensional fluid dynamics The participants who were invited had been working on a broad range of mathematically challenging problems related to atmospheric and oceanic phenomena and they were given carte blanche to talk about their current interests With few exceptions the favored subject involved one or another aspect of fluid flow in two dimensions

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Large-Scale Optimization with Applications Lorenz T. Biegler, 1997-08-07 A three week workshop on Large Scale Optimization was held at the IMA from July 10 to July 28 1995 as

part of its summer program These workshops brought together some of the world's leading experts in the areas of optimization inverse problems optimal design optimal control and molecular structures The content of these volumes represent a majority of the presentations at the three workshops The presentations and the subsequent articles published here are intended to be useful and accessible to both the mathematical programmers and those working in the applications Perhaps somewhat optimistically the hope is that the workshops and the proceedings will also initiate some long term research projects and impart to new researchers the excitement vitality and importance of this kind of cooperation to the applications and to applied mathematics

Parallel Solution of Partial Differential Equations Petter Bjorstad, Mitchell Luskin, 2012-12-06 This IMA Volume in Mathematics and its Applications PARALLEL SOLUTION OF PARTIAL

DIFFERENTIAL EQUATIONS is based on the proceedings of a workshop with the same title The workshop was an integral part of the 1996-97 IMA program on MATHEMATICS IN HIGH PERFORMANCE COMPUTING I would like to thank Petter Bjorstad of the Institutt for Informatikk University of Bergen and Mitchell Luskin of the School of Mathematics University of Minnesota for their excellent work as organizers of the meeting and for editing the proceedings I also take this opportunity to thank the National Science Foundation NSF Department of Energy DOE and the Army Research Office ARO whose financial support made the workshop possible Willard Miller Jr Professor and Director v PREFACE The numerical solution of partial differential equations has been of major importance to the development of many technologies and has been the target of much of the development of parallel computer hardware and software Parallel computers offer the promise of greatly increased performance and the routine calculation of previously intractable problems The papers in this volume were presented at the IMA workshop on the Parallel Solution of PDE held during June 9-13 1997 The workshop brought together leading numerical analysts computer scientists and engineers to assess the state of the art and to consider future directions

Stochastic Models in Geosystems Stanislav A. Molchanov, Wojbor A. Woyczynski, 2012-12-06 This IMA Volume in Mathematics and its Applications STOCHASTIC MODELS IN GEOSYSTEMS is based on the proceedings of a workshop with the same title and was an integral part of the 1993-94 IMA program on Emerging Applications of Probability We would like to thank Stanislav A. Molchanov and Wojbor A. Woyczynski for their hard work in organizing this meeting and in editing the proceedings We also take this opportunity to thank the National Science Foundation the Office of Naval Research the Army Research Office and the National Security Agency whose financial support made this workshop possible Avner Friedman Willard Miller Jr v PREFACE A workshop on Stochastic Models in Geosystems was held during the week of May 16 1994 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 invited speakers represented a broad interdisciplinary spectrum including mathematics statistics physics geophysics astrophysics atmospheric physics fluid mechanics seismology and oceanography The common underlying theme was stochastic modeling

of geophysical phenomena and papers appearing in this volume reflect a number of research directions that are currently pursued in these areas

Environmental Studies Mary F. Wheeler, 2012-12-06 Environmental protection has become a universal issue with world wide support Environmental studies have now bridged the realms of academic research and societal applications Mathematical modeling and large scale data collection and analysis lie at the core of all environmental studies Unfortunately scientists mathematicians and engineers immersed in developing and applying environmental models computational methods statistical techniques and computational hardware advance with separate and often discordant paces The volume is based on recent research designed to provide a much needed interdisciplinary forum for joint exploration of recent advances in this field

Particulate Flows Donald A. Drew, Daniel D. Joseph, Stephen L. Passman, 2012-12-06 This IMA Volume in Mathematics and its Applications PARTICULATE FLOWS PROCESSING AND RHEOLOGY is based on the proceedings of a very successful one week workshop with the same title which was an integral part of the 1995 1996 IMA program on Mathematical Methods in Materials Science We would like to thank Donald A Drew Daniel D Joseph and Stephen L Passman for their excellent work as organizers of the meeting We also take this opportunity to thank the National Science Foundation NSF the Army Research Office ARO and the Office of Naval Research ONR whose financial support made the workshop possible

PREFACE The workshop on Particulate Flows Processing and Rheology was held January 8 12 1996 at the Institute for Mathematics and its Applications on the University of Minnesota Twin Cities campus as part of the 1995 96 Program on Mathematical Methods in Materials Science There were about forty participants and some lively discussions in spite of the fact that bad weather on the east coast kept some participants from attending and caused scheduling changes throughout the workshop Heterogeneous materials can behave strangely even in simple flow situations For example a mixture of solid particles in a liquid can exhibit behavior that seems solid like or fluid like and attempting to measure the viscosity of such a mixture leads to contradictions and unrepeatable experiments Even so such materials are commonly used in manufacturing and processing

Image Models (and their Speech Model Cousins) Stephen Levinson, Larry Shepp, 2012-12-06 This IMA Volume in Mathematics and its Applications IMAGE MODELS AND THEIR SPEECH MODEL COUSINS is based on the proceedings of a workshop that was an integral part of the 1993 94 IMA program on Emerging Applications of Probability We thank Stephen E Levinson and Larry Shepp for organizing the workshop and for editing the proceedings We also take this opportunity to thank the National Science Foundation the Army Research Office and the National Security Agency whose financial support made the workshop possible

PREFACE This volume is an attempt to explore the interface between two diverse areas of applied mathematics that are both customers of the maximum likelihood methodology emission tomography on the one hand and hidden Markov models as an approach to speech understanding on the other hand There are other areas where maximum likelihood is used some of which are represented in this volume parsing of text Jelinek microstructure of materials Ji and DNA sequencing Nelson Most of the

participants were in the main areas of speech or emission density reconstruction Of course there are many other areas where maximum likelihood is used that are not represented here *Future Energy Conferences and Symposia*, 1990

The Earth Observer, 1990 **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 *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 *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 **Mathematics in Industrial Problems** Avner Friedman, 2012-12-06 This

is the seventh volume in the series *Mathematics in Industrial Problems* 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 problems 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 subsequent 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 General Motors Research and Development David S

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 *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

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

Random Discrete Structures David Aldous, Robin Pemantle, 2012-12-06 The articles in this volume present the state of the art in a variety of areas of discrete probability including random walks on finite and infinite graphs random trees renewal sequences Stein's method for normal approximation and Kohonen type self organizing maps This volume also focuses on discrete probability and its connections with the theory of algorithms Classical topics in discrete mathematics are represented as are expositions that condense and make readable some recent work on Markov chains potential theory and

the second moment method This volume is suitable for mathematicians and students **Hamiltonian Dynamical Systems**
H.S. Dumas, K.R. Meyer, D.S. Schmidt, 2012-12-06 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

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