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Volume 194

Non-Standard *and* Improperly Posed Problems

K.A. Ames and B. Straughan



Non Standard And Improperly Posed Problems

**Roberto Monaco, Salvatore
Rionero, Tommaso Ruggeri, Sebastiano
Pennisi**

Non Standard And Improperly Posed Problems:

Non-Standard and Improperly Posed Problems William F. Ames, Brian Straughan, 1997-07-07 Written by two international experts in the field this book is the first unified survey of the advances made in the last 15 years on key non standard and improperly posed problems for partial differential equations This reference for mathematicians scientists and engineers provides an overview of the methodology typically used to study improperly posed problems It focuses on structural stability the continuous dependence of solutions on the initial conditions and the modeling equations and on problems for which data are only prescribed on part of the boundary The book addresses continuous dependence on initial time and spatial geometry and on modeling backward and forward in time It covers non standard or non characteristic problems such as the sideways problem for a heat or hyperbolic equation and the Cauchy problem for the Laplace equation and other elliptic equations The text also presents other relevant improperly posed problems including the uniqueness and continuous dependence for singular equations the spatial decay in improperly posed parabolic problems the uniqueness for the backward in time Navier Stokes equations on an unbounded domain the improperly posed problems for dusty gases the linear thermoelasticity and the overcoming Holder continuity and image restoration Provides the first unified survey of the advances made in the last 15 years in the field Includes an up to date compendium of the mathematical literature on these topics

partial differential equations and applications Giorgio Talenti, 2017-10-02 Written as a tribute to the mathematician Carlo Pucci on the occasion of his 70th birthday this is a collection of authoritative contributions from over 45 internationally acclaimed experts in the field of partial differential equations Papers discuss a variety of topics such as problems where a partial differential equation is coupled with unfavourable boundary or initial conditions and boundary value problems for partial differential equations of elliptic type Symposium on Non-Well-Posed Problems and Logarithmic Convexity Knops Robin J., 2006-11-15 Qualitative Estimates For Partial Differential Equations J N Flavin, S.

Rionero, 2020-12-17 Qualitative Estimates For Partial Differential Equations An Introduction describes an approach to the use of partial differential equations PDEs arising in the modelling of physical phenomena It treats a wide range of differential inequality techniques applicable to problems arising in engineering and the natural sciences including fluid and solid mechanics physics dynamics biology and chemistry The book begins with an elementary discussion of the fundamental principles of differential inequality techniques for PDEs arising in the solution of physical problems and then shows how these are used in research Qualitative Estimates For Partial Differential Equations An Introduction is an ideal book for students professors lecturers and researchers who need a comprehensive introduction to qualitative methods for PDEs arising in engineering and the natural sciences

Nonlinear Equations in the Applied Sciences W. F. Ames, 1991-08-16 **Nonlinear Equations in the Applied Sciences** **Continuum Mechanics - Volume III** José Merodio, Giuseppe

Saccomandi, 2011-11-30 The main objective of continuum mechanics is to predict the response of a body that is under the

action of external and or internal influences i.e. to capture and describe different mechanisms associated with the motion of a body that is under the action of loading. A body in continuum mechanics is considered to be matter continuously distributed in space. Hence no attention is given to the microscopic atomic structure of real materials although non classical generalized theories of continuum mechanics are able to deal with the mesoscopic structure of matter i.e. defects cracks dispersive lengths. Matter occupies space in time and the response of a body in continuum mechanics is restricted to the Newtonian space time of classical mechanics in this volume Einstein's theory of relativity is not considered. In the classical sense loading is considered as any action that changes the motion of the body. This includes for instance a change in temperature or a force applied. By introducing the concept of configurational forces a load may also be considered as a force that drives a change in the material space for example the opening of a crack. Continuum mechanics refers to field descriptions of phenomena that are usually modeled by partial differential equations and from a mathematical point of view require non standard knowledge of non simple technicalities. One purpose in this volume has been to present the different subjects in a self contained way for a general audience. The organization of the volume is as follows. Mathematically to predict the response of a body it is necessary to formulate boundary value problems governed by balance laws. The theme of the volume that is an overview of the subject has been written with this idea in mind for beginners in the topic. Chapter 1 is an introduction to continuum mechanics based on a one dimensional framework in which simultaneously a more detailed organization of the chapters of this volume is given. A one dimensional approach to continuum mechanics in some aspects maybe misleading since the analysis is oversimplified. Nevertheless it allows us to introduce the subject through the early basic steps of the continuum analysis for a general audience. Chapters 3, 4 and 5 are devoted to the mathematical setting of continuum analysis kinematics balance laws and thermodynamics respectively. Chapters 6 and 7 are devoted to constitutive equations. Chapters 8 and 9 deal with different issues in the context of linear elastostatics and linear elastodynamics and waves respectively for solids. Linear Elasticity is a classical and central theory of continuum mechanics. Chapter 10 deals with fluids while chapter 11 analyzes the coupled theory of thermoelasticity. Chapter 12 deals with nonlinear elasticity and its role in the continuum framework. Chapters 13 and 14 are dedicated to different applications of solid and fluid mechanics respectively. The rest of the chapters involve some advanced topics. Chapter 15 is dedicated to turbulence one of the main challenges in fluid mechanics. Chapter 16 deals with electro magneto active materials a coupled theory. Chapter 17 deals with specific ideas of soft matter and chapter 18 deals with configurational forces. In chapter 19 constitutive equations are introduced in a general implicit form. Well posedness existence time of existence uniqueness continuity of the equations of the mechanics of continua is an important topic which involves sophisticated mathematical machinery. Chapter 20 presents different analyses related to these topics. Continuum Mechanics is an interdisciplinary subject that attracts the attention of engineers mathematicians physicists etc working in many different disciplines from a purely scientific environment to industrial applications including biology.

materials science engineering and many other subjects **The Cauchy Problem** Hector O. Fattorini, 1983 This volume deals with the Cauchy or initial value problem for linear differential equations It treats in detail some of the applications of linear space methods to partial differential equations especially the equations of mathematical physics such as the Maxwell Schrödinger and Dirac equations Background material presented in the first chapter makes the book accessible to mathematicians and physicists who are not specialists in this area as well as to graduate students Stability and Wave Motion in Porous Media Brian Straughan, 2008-12-10 This book describes several tractable theories for fluid flow in porous media The important mathematical questions about structural stability and spatial decay are addressed Thermal convection and stability of other flows in porous media are covered A chapter is devoted to the problem of stability of flow in a fluid overlying a porous layer Nonlinear wave motion in porous media is analysed In particular waves in an elastic body with voids are investigated while acoustic waves in porous media are also analysed in some detail A chapter is enclosed on efficient numerical methods for solving eigenvalue problems which occur in stability problems for flows in porous media Brian Straughan is a professor at the Department of Mathematical Sciences at Durham University United Kingdom **More Progresses In Analysis - Proceedings Of The 5th International Isaac Congress** Heinrich G W Begehr, Francesco Nicolosi, 2009-05-12 International ISAAC International Society for Analysis its Applications and Computation Congresses have been held every second year since 1997 The proceedings report on a regular basis on the progresses of the field in recent years where the most active areas in analysis its applications and computation are covered Plenary lectures also highlight recent results This volume concentrates mainly on partial differential equations but also includes function spaces operator theory integral transforms and equations potential theory complex analysis and generalizations stochastic analysis inverse problems homogenization continuum mechanics mathematical biology and medicine With over 350 participants attending the congress the book comprises 140 papers from 211 authors The volume also serves for transferring personal information about the ISAAC and its members This volume includes citations for O Besov V Burenkov and R P Gilbert on the occasion of their anniversaries More Progresses in Analysis Heinrich G. W. Begehr, Francesco Nicolosi, 2009 International ISAAC International Society for Analysis its Applications and Computation Congresses have been held every second year since 1997 The proceedings report on a regular basis on the progresses of the field in recent years where the most active areas in analysis its applications and computation are covered Plenary lectures also highlight recent results This volume concentrates mainly on partial differential equations but also includes function spaces operator theory integral transforms and equations potential theory complex analysis and generalizations stochastic analysis inverse problems homogenization continuum mechanics mathematical biology and medicine With over 350 participants attending the congress the book comprises 140 papers from 211 authors The volume also serves for transferring personal information about the ISAAC and its members This volume includes citations for O Besov V Burenkov and R P Gilbert on the occasion of their anniversaries Fractional

Differential Equations Igor Podlubny, 1998-10-27 This book is a landmark title in the continuous move from integer to non integer in mathematics from integer numbers to real numbers from factorials to the gamma function from integer order models to models of an arbitrary order For historical reasons the word fractional is used instead of the word arbitrary This book is written for readers who are new to the fields of fractional derivatives and fractional order mathematical models and feel that they need them for developing more adequate mathematical models In this book not only applied scientists but also pure mathematicians will find fresh motivation for developing new methods and approaches in their fields of research A reader will find in this book everything necessary for the initial study and immediate application of fractional derivatives fractional differential equations including several necessary special functions basic theory of fractional differentiation uniqueness and existence theorems analytical numerical methods of solution of fractional differential equations and many inspiring examples of applications A unique survey of many applications of fractional calculus Presents basic theory Includes a unified presentation of selected classical results which are important for applications Provides many examples Contains a separate chapter of fractional order control systems which opens new perspectives in control theory The first systematic consideration of Caputo's fractional derivative in comparison with other selected approaches Includes tables of fractional derivatives which can be used for evaluation of all considered types of fractional derivatives Waves And Stability In

Continuous Media - Proceedings Of The 12th Conference On Wascom 2003 Roberto Monaco, Salvatore Rionero, Tommaso Ruggeri, Sebastiano Pennisi, 2004-04-16 This book contains about 20 invited papers and 40 contributed papers in the research areas of theoretical continuum mechanics kinetic theory and numerical applications of continuum mechanics Collectively these papers give a good overview of the activities and developments in these fields in the last few years 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 **Explosive**

Instabilities in Mechanics Brian Straughan, 2012-12-06 The subject of blow up in a finite time or at least very rapid growth of a solution to a partial differential equation has been an area of intense research activity in mathematics Some of the early techniques and results were discussed in the monograph by Payne 1975 and in my earlier monograph Straughan 1982 Relatively recent accounts of blow up work in partial differential equations may be found in the review by Levine 1990 and in the book by Samarskii et al 1994 It is becoming increasingly clear that very rapid instabilities and indeed finite time blow up are being witnessed also in problems in applied mathematics and mechanics Also in vogue in the mathematical literature are studies of blow up in systems of partial differential equations partial differential equations with non linear convection terms and systems of partial differential equations which contain convection terms Such equations are often derived from models of mundane situations in real life This book is an account of these topics in a selection of areas of applied mathematics which either I have worked in or I find particularly interesting and deem relevant to be included in such an exposition I believe the

results given in Chap 2 and Sects 4 2 3 and 4 2 4 are new This research was partly supported by a Max Planck
Forschungspreis from the Alexander von Humboldt Foundation and the Max Planck Institute **Topics in Finite Elasticity**
Michael Hayes,Giuseppe Saccomandi,2014-05-04 More than fifty years ago Professor R S Rivlin pioneered developments in
both the theory and experiments of rubber elasticity These together with his other fundamental studies contributed to a
revitalization of the theory of finite elasticity which had been dormant since the basic understanding was completed in the
nineteenth century This book with chapters on foundation models universal results wave propagation qualitative theory and
phase transitions indicates that the subject he reinvigorated has remained remarkably vibrant and has continued to present
significant deep mathematical and experimental challenges **New Trends In Mathematical Physics: In Honour Of The**
Salvatore Rionero 70th Birthday - Proceedings Of The International Meeting Paolo Fergola,Florinda Capone,Maurizio
Gentile,Gabriele Guerriero,2005-01-04 This proceedings volume widely surveys new problems methods and techniques in
mathematical physics The 22 original papers featured are of great interest to various areas of applied mathematics They are
presented in honour of Professor Salvatore Rionero 70th birthday The proceedings have been selected for coverage in Index
to Scientific Technical Proceedings ISTE ISI Proceedings Index to Scientific Technical Proceedings ISTE CDROM version ISI
Proceedings CC Proceedings Engineering Physical Sciences Waves in Flows Tomáš Bodnár,Giovanni P. Galdi,Šárka
Nečasová,2021-05-04 This volume explores a range of recent advances in mathematical fluid mechanics covering theoretical
topics and numerical methods Chapters are based on the lectures given at a workshop in the summer school Waves in Flows
held in Prague from August 27 31 2018 A broad overview of cutting edge research is presented with a focus on mathematical
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presented by leading experts in their respective fields Specific topics covered include Chemorepulsion Compressible Navier
Stokes systems Newtonian fluids Fluid structure interactions Waves in Flows The 2018 Prague Summer Workshop Lectures will
appeal to post doctoral students and scientists whose work involves fluid mechanics Proceedings, "WASCOM 2003"
Roberto Monaco,2004 This book contains about 20 invited papers and 40 contributed papers in the research areas of
theoretical continuum mechanics kinetic theory and numerical applications of continuum mechanics Collectively these
papers give a good overview of the activities and developments in these fields in the last few years The proceedings have
been selected for coverage in OCo Index to Scientific Inverse Problems in Photon Transport Part I Determination of Physical
and Geometrical Features of an Interstellar Cloud A Belleni Morante et al Inverse Problems in Photon Transport Part II
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the Gibbs Paradox I Mller Transport Coefficients in Stochastic Models of the Revised Enskog and Square Well Kinetic Theories J Polewczak Some Recent Mathematical Results in Mixtures Theory of Euler Fluids T Ruggeri From Kinetic Systems to Diffusion Equations F Salvarani Non Boussinesq Convection in Porous Media B Straughan and other papers Readership Researchers academics and graduate students working in the fields of continuum mechanics wave propagation stability in fluids kinetic theory and computational fluid dynamics *Fifth International Conference on Mathematical and Numerical Aspects of Wave Propagation* Alfredo Berm?dez,2000-01-01 This conference was held in Santiago de Compostela Spain July 10 14 2000 This volume contains papers presented at the conference covering a broad range of topics in theoretical and applied wave propagation in the general areas of acoustics electromagnetism and elasticity Both direct and inverse problems are well represented This volume along with the three previous ones presents a state of the art primer for research in wave propagation The conference is conducted by the Institut National de Recherche en Informatique et en Automatique with the cooperation of SIAM Grants and Awards ,1972 **American Book Publishing Record** ,1997

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