Nonsmooth/Nonconvex Mechanics

Modeling, Analysis and Numerical Methods

A Volume Dedicated to the Memory of Professor P.D. Panagiotopoulos

David Y. Gao, Ray W. Ogden and
Georgios E. Stavroulakis (Eds.)

Nonsmooth Nonconvex Mechanics

Yiu-Chung Hon

Nonsmooth Nonconvex Mechanics:

  Nonsmooth/Nonconvex Mechanics David Yang Gao,Ray W. Ogden,Georgios E. Stavroulakis,2001-03-31 Nonsmooth and nonconvex models arise in several important applications of mechanics and engineering The interest in this field is growing from both mathematicians and engineers The study of numerous industrial applications including contact phenomena in statics and dynamics or delamination effects in composites require the consideration of nonsmoothness and nonconvexity The mathematical topics discussed in this book include variational and hemivariational inequalities duality complementarity variational principles sensitivity analysis eigenvalue and resonance problems and minimax problems Applications are considered in the following areas among others nonsmooth statics and dynamics stability of quasi static evolution processes friction problems adhesive contact and debonding inverse problems pseudoelastic modeling of phase transitions chaotic behavior in nonlinear beams and nonholonomic mechanical systems This volume contains 22 chapters written by various leading researchers and presents a cohesive and authoritative overview of recent results and applications in the area of nonsmooth and nonconvex mechanics Audience Faculty graduate students and researchers in applied mathematics optimization control and engineering   Nonsmooth/Nonconvex Mechanics David Yang Gao,Raymond W. Ogden,Georgios E. Stavroulakis,2013-12-01 Nonsmooth and nonconvex models arise in several important applications of mechanics and engineering The interest in this field is growing from both mathematicians and engineers The study of numerous industrial applications including contact phenomena in statics and dynamics or delamination effects in composites require the consideration of nonsmoothness and nonconvexity The mathematical topics discussed in this book include variational and hemivariational inequalities duality complementarity variational principles sensitivity analysis eigenvalue and resonance problems and minimax problems Applications are considered in the following areas among others nonsmooth statics and dynamics stability of quasi static evolution processes friction problems adhesive contact and debonding inverse problems pseudoelastic modeling of phase transitions chaotic behavior in nonlinear beams and nonholonomic mechanical systems This volume contains 22 chapters written by various leading researchers and presents a cohesive and authoritative overview of recent results and applications in the area of nonsmooth and nonconvex mechanics Audience Faculty graduate students and researchers in applied mathematics optimization control and engineering   Nonsmooth/nonconvex mechanics with applications in engineering : ; a volume dedicated to the memory of Prof. P. D. Panagiotopoulos ; [proceedings of the international conference, 5-6 July 2002, Thessaloniki, Greece] P. D. Panagiotopoulos,2002   Nonsmooth Mechanics of Solids Jaroslav Haslinger,Georgios E. Stavroulakis,2007-08-03 Mechanics have played an important role in mathematics from infinitesimal calculus calculus of variations partial differential equations and numerical methods finite elements Originally mechanics treated smooth objects Technological progress has evoked the necessity to model and solve more complicated problems like unilateral contact and friction plasticity delamination and adhesion advanced materials etc The new tools

include convex analysis differential calculus for convex functions and subgradients of convex functions and extensions for nonconvex problems Nonsmooth mechanics is a relatively complex field and requires a good knowledge of mechanics and a good background in some parts of modern mathematics The present volume of lecture notes follows a very successful advanced school with the aim to cover as much as possible all these aspects Therefore the contributions cover mechanical aspects as well as the mathematical and numerical treatment *Boundary Element Advances in Solid Mechanics* Dimitri Beskos,Giulio Maier,2014-05-04 This volume presents and discusses recent advances in Boundary Element Methods BEM and their solid mechanics applications in those areas where these numerical methods prove to be the ideal solution tool The aim is to illustrate these methods in their most recent forms developed during the last five to ten years and demonstrate their advantages when solving a wide range of solid mechanics problems encountered in many branches of engineering such as civil mechanical or aeronautical engineering Nonconvex Optimization in Mechanics E.S. Mistakidis,Georgios E. Stavroulakis,2013-11-21 Nonconvexity and nonsmoothness arise in a large class of engineering applica tions In many cases of practical importance the possibilities offered by opti mization with its algorithms and heuristics can substantially improve the per formance and the range of applicability of classical computational mechanics algorithms For a class of problems this approach is the only one that really works The present book presents in a comprehensive way the application of opti mization algorithms and heuristics in smooth and nonsmooth mechanics The necessity of this approach is presented to the reader through simple represen tative examples As things become more complex the necessary material from convex and nonconvex optimization and from mechanics are introduced in a self contained way Unilateral contact and friction problems adhesive contact and delamination problems nonconvex elastoplasticity fractal friction laws frames with semi rigid connections are among the applications which are treated in details here Working algorithms are given for each application and are demonstrated by means of representative examples The interested reader will find helpful references to up to date scientific and technical literature so that to be able to work on research or engineering topics which are not directly covered here

Advances in Applied Mathematics and Global Optimization David Y. Gao,Hanif D. Sherali,2009-04-09 The articles that comprise this distinguished annual volume for the Advances in Mechanics and Mathematics series have been written in honor of Gilbert Strang a world renowned mathematician and exceptional person Written by leading experts in complementarity duality global optimization and quantum computations this collection reveals the beauty of these mathematical disciplines and investigates recent developments in global optimization nonconvex and nonsmooth analysis nonlinear programming theoretical and engineering mechanics large scale computation quantum algorithms and computation and information theory **Encyclopedia of Optimization** Christodoulos A. Floudas,Panos M. Pardalos,2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second

edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling   Duality Principles in Nonconvex Systems David Yang Gao,2013-03-09 Motivated by practical problems in engineering and physics drawing on a wide range of applied mathematical disciplines this book is the first to provide within a unified framework a self contained comprehensive mathematical theory of duality for general non convex non smooth systems with emphasis on methods and applications in engineering mechanics Topics covered include the classical minimax mono duality of convex static equilibria the beautiful bi duality in dynamical systems the interesting tri duality in non convex problems and the complicated multi duality in general canonical systems A potentially powerful sequential canonical dual transformation method for solving fully nonlinear problems is developed heuristically and illustrated by use of many interesting examples as well as extensive applications in a wide variety of nonlinear systems including differential equations variational problems and inequalities constrained global optimization multi well phase transitions non smooth post bifurcation large deformation mechanics structural limit analysis differential geometry and non convex dynamical systems With exceptionally coherent and lucid exposition the work fills a big gap between the mathematical and engineering sciences It shows how to use formal language and duality methods to model natural phenomena to construct intrinsic frameworks in different fields and to provide ideas concepts and powerful methods for solving non convex non smooth problems arising naturally in engineering and science Much of the book contains material that is new both in its manner of presentation and in its research development A self contained appendix provides some necessary background from elementary functional analysis Audience The book will be a valuable resource for students and researchers in applied mathematics physics mechanics and engineering The whole volume or selected chapters can alsobe recommended as a text for both senior undergraduate and graduate courses in applied mathematics mechanics general engineering science and other areas in which the notions of optimization and variational methods are employed

Computational Modeling of Masonry Structures Using the Discrete Element Method Sarhosis, Vasilis,Bagi, Katalin,Lemos, José V.,Milani, Gabriele,2016-06-09 The Discrete Element Method DEM has emerged as a solution to predicting load capacities of masonry structures As one of many numerical methods and computational solutions being applied to evaluate masonry structures further research on DEM tools and methodologies is essential for further advancement Computational Modeling of Masonry Structures Using the Discrete Element Method explores the latest digital solutions for the analysis and modeling of brick stone concrete granite limestone and glass block structures Focusing on critical research on mathematical and computational methods for masonry analysis this publication is a pivotal reference source for scholars engineers consultants and graduate level engineering students   **From Convexity to Nonconvexity**

R.P. Gilbert,Panagiotis D. Panagiotopoulos,Panos M. Pardalos,2013-12-01 This collection of papers is dedicated to the memory of Gaetano Fichera a great mathematician and also a good friend to the editors Regrettably it took an unusual amount of time to bring this collection out This was primarily due to the fact that the main editor who had collected all of the materials for this volume P D Panagiotopoulos died unexpectedly during the period when we were editing the manuscript The other two editors in appreciation of Panagiotopoulos contribution to this field believe it is therefore fitting that this collection be dedicated to his memory also The theme of the collection is centered around the seminal research of G Fichera on the Signorini problem Variants on this idea enter in different ways For example by bringing in friction the problem is no longer self adjoint and the minimization formulation is not valid A large portion of this collection is devoted to survey papers concerning hemivariational methods with a main point of its application to nonsmooth mechanics Hemivariational inequali ties which are a generalization of variational inequalities were pioneered by Panagiotopoulos There are many applications of this theory to the study of non convex energy functionals occurring in many branches of mechanics An area of concentration concerns contact problems in particular quasistatic and dynamic contact problems with friction and damage Nonsmooth optimization methods which may be divided into the main groups of subgradient methods and bundle methods are also discussed in this collection **Hybrid Systems: Computation and Control** Magnus Egerstedt,2008-04-03 This book constitutes the refereed proceedings of the 11th International Conference on Hybrid Systems Computation and Control HSCC 2008 held in St Louis MO USA in April 2008 The 42 revised full papers and 20 revised short papers presented were carefully reviewed and selected from numerous submissions for inclusion in the book The papers focus on research in embedded reactive systems involving the interplay between symbolic switching and continuous dynamical behaviors and feature the latest developments of applications and theoretical advancements in the design analysis control optimization and implementation of hybrid systems with particular attention to embedded and networked control systems

Quasidifferentiability and Nonsmooth Modelling in Mechanics, Engineering and Economics Vladimir F. Demyanov,Georgios E. Stavroulakis,L.N. Polyakova,P. D. Panagiotopoulos,2013-11-21 Nonsmooth energy functions govern phenomena which occur frequently in nature and in all areas of life They constitute a fascinating subject in mathematics and permit the rational understanding of yet unsolved or partially solved questions in mechanics engineering and economics This is the first book to provide a complete and rigorous presentation of the quasidifferentiability approach to nonconvex possibly nonsmooth energy functions of the derivation and study of the corresponding variational expressions in mechanics engineering and economics and of their numerical treatment The new variational formulations derived are illustrated by many interesting numerical problems The techniques presented will permit the reader to check any solution obtained by other heuristic techniques for nonconvex nonsmooth energy problems A civil mechanical or aeronautical engineer can find in the book the only existing mathematically sound technique for the formulation and study of nonconvex nonsmooth energy

problems Audience The book will be of interest to pure and applied mathematicians physicists researchers in mechanics civil mechanical and aeronautical engineers structural analysts and software developers It is also suitable for graduate courses in nonlinear mechanics nonsmooth analysis applied optimization control calculus of variations and computational mechanics

Railway Management and Engineering V Profillidis,2016-12-05 In a rapidly changing world with increasing competition in all sectors of transportation railways are in a period of restructuring their management and technology New methods of organization are introduced commercial and tariff policies change radically a more entrepreneurial spirit is required At the same time new high speed tracks are being constructed and old tracks are renewed high comfort rolling stock vehicles are being introduced logistics and combined transport are being developed Awareness of environmental issues and the search for greater safety give a new role to the railways within the transportation system Meanwhile methods of analysis have significantly evolved principally due to computer applications and new ways of thinking and approaching old problems Thus it becomes necessary to come up with a new scientific approach to tackle management and engineering aspects of railways to understand in depth the origins and inter relationships of the various situations and phenomena and to suggest the appropriate methods and solutions to solve the various emerging problems This book aims to cover the need for a new scientific approach for railways It is intended to be of use to railway managers economists and engineers consulting economists and engineers students of schools of engineering transportation economics and management The book is divided into three parts which deal successively with management track and rolling stock environment and safety Each chapter of the book contains the necessary theoretical analysis of the phenomena studied the recommended solutions applications charts and design of the specific railway component In this way both the requirement for a theoretical analysis is met and the need of the railway manager and engineer for tables nomographs regulations etc is satisfied Railways in Europe have separated activities of infrastructure from those of operation In other parts of the world however railways remain unified The book addresses both situations separated and unified railways Railways present great differences in their technologies Something may be valid for one such technology but not for another To overcome this problem regulations of the International Union of Railways UIC as well as European Standardization CEN and European Technical Specifications for Interoperability TSIs have been used to the greatest extent possible Whenever a specific technology or method is presented the limits of its application are clearly emphasized **Variational and Non-variational Methods in Nonlinear Analysis and Boundary Value Problems** Dumitru Motreanu,Vicentiu D. Radulescu,2013-06-29 This book reflects a significant part of authors research activity dur ing the last ten years The present monograph is constructed on the results obtained by the authors through their direct cooperation or due to the authors separately or in cooperation with other mathematicians All these results fit in a unitary scheme giving the structure of this work The book is mainly addressed to researchers and scholars in Pure and Applied Mathematics Mechanics Physics and Engineering We are greatly indebted to Viorica Venera

Motreanu for the careful reading of the manuscript and helpful comments on important issues We are also grateful to our Editors of Kluwer Academic Publishers for their professional assistance Our deepest thanks go to our numerous scientific collaborators and friends whose work was so important for us D Motreanu and V Radulescu IX Introduction The present monograph is based on original results obtained by the authors in the last decade This book provides a comprehensive expo sition of some modern topics in nonlinear analysis with applications to the study of several classes of boundary value problems Our framework includes multivalued elliptic problems with discontinuities variational inequalities hemivariational inequalities and evolution problems The treatment relies on variational methods monotonicity principles topo logical arguments and optimization techniques Excepting Sections 1 and 3 in Chapter 1 and Sections 1 and 3 in Chapter 2 the material is new in comparison with any other book representing research topics where the authors contributed The outline of our work is the following   Recent Development in Theories & Numerics Yiu-Chung Hon,2003 Annotation Proceedings from the First International Conference on Inverse Problems Recent Theoretical Development and Numerical Approaches held at the City University of Hong Kong from January 9 12 2002   Advances in Mathematical Methods and High Performance Computing Vinai K. Singh,David Gao,Andreas Fischer,2019-02-14 This special volume of the conference will be of immense use to the researchers and academicians In this conference academicians technocrats and researchers will get an opportunity to interact with eminent persons in the field of Applied Mathematics and Scientific Computing The topics to be covered in this International Conference are comprehensive and will be adequate for developing and understanding about new developments and emerging trends in this area High Performance Computing HPC systems have gone through many changes during the past two decades in their architectural design to satisfy the increasingly large scale scientific computing demand Accurate fast and scalable performance models and simulation tools are essential for evaluating alternative architecture design decisions for the massive scale computing systems This conference recounts some of the influential work in modeling and simulation for HPC systems and applications identifies some of the major challenges and outlines future research directions which we believe are critical to the HPC modeling and simulation community   *Hybrid Systems: Computation and Control* Alberto Bemporad,Antonio Bicchi,Giorgio C Buttazzo,2007-03-20 This book constitutes the refereed proceedings of the 10th International Conference on Hybrid Systems Computation and Control HSCC 2007 held in Pisa Italy in April 2007 The 44 revised full papers and 39 revised short papers presented together with the abstracts of 3 keynote talks were carefully reviewed and selected from 167 submissions Among the topics addressed are models of heterogeneous systems computability and complexity issues real time computing and control embedded and resource aware control control and estimation over wireless networks tools for analysis verification control and design programming languages support and implementation applications including automotive communication networks avionics energy systems transportation networks biology and other sciences manufacturing and robotics   *Finite Element Method for Hemivariational Inequalities* J.

Haslinger,M. Miettinen,Panagiotis D. Panagiotopoulos,2013-03-09 Hemivariational inequalities represent an important class of problems in nonsmooth and nonconvex mechanics By means of them problems with nonmonotone possibly multivalued constitutive laws can be formulated mathematically analyzed and finally numerically solved The present book gives a rigorous analysis of finite element approximation for a class of hemivariational inequalities of elliptic and parabolic type Finite element models are described and their convergence properties are established Discretized models are numerically treated as nonconvex and nonsmooth optimization problems The book includes a comprehensive description of typical representants of nonsmooth optimization methods Basic knowledge of finite element mathematics functional and nonsmooth analysis is needed The book is self contained and all necessary results from these disciplines are summarized in the introductory chapter Audience Engineers and applied mathematicians at universities and working in industry Also graduate level students in advanced nonlinear computational mechanics mathematics of finite elements and approximation theory Chapter 1 includes the necessary prerequisite materials   Nonlinear Inclusions and Hemivariational Inequalities Stanisław Migórski,Anna Ochal,Mircea Sofonea,2012-09-18 This book introduces the reader the theory of nonlinear inclusions and hemivariational inequalities with emphasis on the study of contact mechanics The work covers both abstract results in the area of nonlinear inclusions hemivariational inequalities as well as the study of specific contact problems including their modelling and their variational analysis Provided results are based on original research on the existence uniqueness regularity and behavior of the solution for various classes of nonlinear stationary and evolutionary inclusions In carrying out the variational analysis of various contact models one systematically uses results of hemivariational inequalities and in this way illustrates the applications of nonlinear analysis in contact mechanics New mathematical methods are introduced and applied in the study of nonlinear problems which describe the contact between a deformable body and a foundation Contact problems arise in industry engineering and geophysics Their variational analysis presented in this book lies the background for their numerical analysis This volume will interest mathematicians applied mathematicians engineers and scientists as well as advanced graduate students

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