Duality Principles in Nonconvex Systems

Theory, Methods and Applications

David Yang Gao
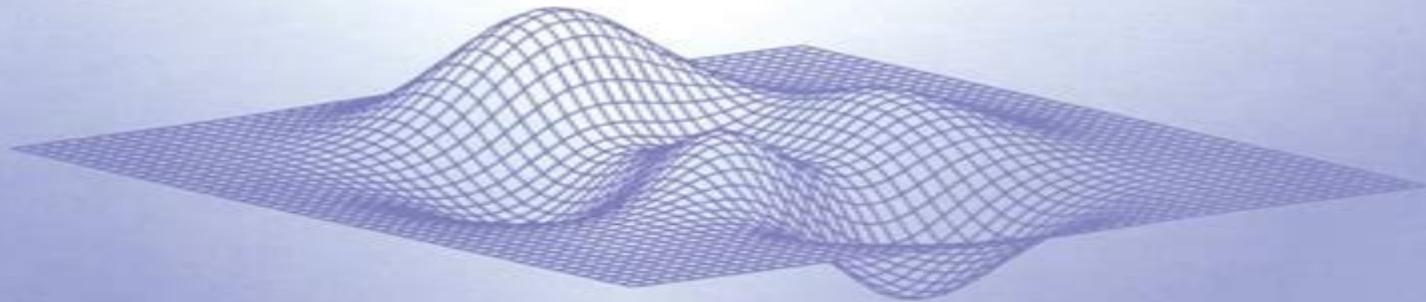
Duality Principles In Nonconvex Systems Theory Methods And Applications

Takashi Suzuki

Duality Principles In Nonconvex Systems Theory Methods And Applications:

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 *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 **Canonical Duality Theory** David Yang Gao,Vittorio Latorre,Ning Ruan,2017-10-09 This book on canonical duality theory provides a comprehensive review of its philosophical origin physics foundation and mathematical statements in both finite and infinite dimensional spaces A ground breaking methodological theory canonical duality theory can be used for modeling complex systems within a unified framework and for solving a large class of challenging problems in multidisciplinary fields in engineering mathematics and the sciences This volume places a particular emphasis on canonical duality theory s role in bridging the gap between non convex analysis mechanics and global optimization With 18 total chapters written by experts in their fields this volume provides a nonconventional theory for unified understanding of the fundamental difficulties in large deformation mechanics bifurcation chaos in nonlinear science and the NP hard problems in global optimization Additionally readers will find a unified methodology and powerful algorithms for solving challenging problems in complex systems with real world applications in non convex analysis non monotone variational inequalities integer programming topology optimization post buckling of large deformed structures etc Researchers and graduate students will find explanation and potential applications in multidisciplinary fields *Global Optimization with Non-Convex Constraints* Roman G. Strongin,Yaroslav D. Sergeyev,2000-10-31 This book presents a new approach to global non convex constrained optimization Problem dimensionality is reduced via space filling curves To economize the search constraint is accounted separately penalties are not employed The multicriteria case is also considered All techniques are generalized for non redundant execution on multiprocessor systems Audience Researchers and students working in optimization applied mathematics and computer science *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   **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   **Philosophical Transactions of the Royal Society** ,2001   **Philosophical Transactions** ,2001   **European Solid Mechanics Conference** ,2000   Mean Field Theories and Dual Variation Takashi Suzuki,2008 A mathematical theory is introduced in this book to unify a large class of nonlinear partial differential equation PDE models for better understanding and analysis of the physical and biological phenomena they represent The so called mean field approximation approach is adopted to describe the macroscopic phenomena from certain microscopic principles for this unified mathematical formulation Two key ingredients for this approach are the notions of duality according to the PDE weak solutions and hierarchy for revealing the details of the otherwise hidden secrets such as physical mystery hidden between particle density and field concentration quantized blow up biological mechanism sealed in chemotaxis systems as well as multi scale mathematical explanations of the Smoluchowskindash Poisson model in non equilibrium thermodynamics two dimensional turbulence theory self dual gauge theory and so forth This book shows how and why many different nonlinear problems are inter connected in terms of the properties of duality and scaling and the way to analyze them mathematically   **Mathematical Reviews** ,2002   *Nonsmooth Mechanics of Solids* Jaroslav Haslinger,Georgios E. Stavroulakis,2006-11-21 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 **American Book Publishing Record** ,2000 *The British National Bibliography* Arthur James Wells,2000 **Applied Mechanics Update** ,1986 **Notices of the American Mathematical Society** American Mathematical Society,1976 Proceedings of the First World Congress of Structural and Multidisciplinary Optimization Niels Olhoff,G. I. N. Rozvany,1995 Hardbound The First World Congress of Structural and Multidisciplinary Optimization WCSMO 1 was held in Goslar Lower Saxony Germany from 28 May to 2 June 1995 Its aim was to bring together at a single international meeting researchers and practitoners in the field of structural optimization This aim was met and these proceedings contain contributed papers presented at WCSMO 1 demonstrating the strong activity recent advances and increasing importance of the field of optimum design The book facilitates overview and easy access to these papers by categorizing them under 26 topics of modern optimization and by providing author and keyword indices Cybernetics Abstracts ,1981 **Brinkman's cumulatieve catalogus van boeken** ,2001 Voorts een alphabetische lijst van Nederlandsche boeken in Belgi uitgegeven *University of Colorado at Denver Catalog* University of Colorado at Denver,2002

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