

Progress in Nonlinear Differential Equations
and Their Applications

Dorin Bucur
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Variational Methods in Shape Optimization Problems



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Variational Methods In Shape Optimization Problems:

Variational Methods in Some Shape Optimization Problems Dorin Bucur, Giuseppe Buttazzo, 2002

Variational Methods in Shape Optimization Problems Dorin Bucur, Giuseppe Buttazzo, 2006-09-13 The fascinating field of shape optimization problems has received a lot of attention in recent years particularly in relation to a number of applications in physics and engineering that require a focus on shapes instead of parameters or functions The goal of these applications is to deform and modify the admissible shapes in order to comply with a given cost function that needs to be optimized In this respect the problems are both classical as the isoperimetric problem and the Newton problem of the ideal aerodynamical shape show and modern reflecting the many results obtained in the last few decades The intriguing feature is that the competing objects are shapes i.e domains of \mathbb{R}^n instead of functions as it usually occurs in problems of the calculus of variations This constraint often produces additional difficulties that lead to a lack of existence of a solution and to the introduction of suitable relaxed formulations of the problem However in certain limited cases an optimal solution exists due to the special form of the cost functional and to the geometrical restrictions on the class of competing domains

Variational methods in some shape optimization problems Dorin Bucur, Giuseppe Buttazzo, 2002-10-01 The study of shape optimization problems is a very wide field both classical as the isoperimetric problem and Newton problem of the best aerodynamical shape show and modern for all the recent results obtained in the last two three decades The fascinating feature is that the competing objects are shapes i.e domains of \mathbb{R}^n instead of functions as usually occurs in problems of calculus of variations This constraint often produces additional difficulties that lead to a lack of existence of a solution and the introduction of suitable relaxed formulations of the problem However in a few cases an optimal solution exists due to the special form of the cost functional and to the geometrical restriction on the class of competing domains This volume collects the lecture notes of two courses given in the academic year 2000-01 by the authors at the University of Pisa and at the Scuola Normale Superiore respectively The courses were mainly addressed to Ph.D students and required a background in the topics in functional analysis that are usually taught in undergraduate courses

Boundary Element Methods in Engineering Balkrishna S. Annigeri, Kadin Tseng, 2012-12-06 The Boundary Element Method BEM has become established as an effective tool for the solutions of problems in engineering science The salient features of the BEM have been well documented in the open literature and therefore will not be elaborated here The BEM research has progressed rapidly especially in the past decade and continues to evolve worldwide This Symposium was organized to provide an international forum for presentation of current research in BEM for linear and nonlinear problems in solid and fluid mechanics and related areas To this end papers on the following topics were included rotary wing aerodynamics unsteady aerodynamics design and optimization elasticity elasto dynamics and elastoplasticity fracture mechanics acoustics diffusion and wave motion thermal analysis mathematical aspects and boundary finite element coupled methods A special session was devoted to parallel vector supercomputing with emphasis on

mas sive parallelism This Symposium was sponsored by United Technologies Research Center UTRC NASA Langley Research Center and the International Association of Boundary Element Methods IABEM We thank the UTRC management for their permission to host this Symposium In particular we thank Dr Arthur S Kesten and Mr Robert E Olson for their encouragement and support We gratefully acknowledge the support of Dr E Carson Yates Jr of NASA Langley Prof Luigi Morino Dr Thomas A

Optimal Control of Coupled Systems of Partial Differential Equations Karl Kunisch, Günter Leugering, Jürgen Sprekels, Fredi Tröltzsch, 2009-12-03 Contains contributions originating from the Conference on Optimal Control of Coupled Systems of Partial Differential Equations held at the Mathematisches Forschungsinstitut Oberwolfach in March 2008 This work covers a range of topics such as controllability optimality systems model reduction techniques and fluid structure interactions

Optimal Design through the Sub-Relaxation Method Pablo Pedregal, 2016-09-01 This book provides a comprehensive guide to analyzing and solving optimal design problems in continuous media by means of the so called sub relaxation method Though the underlying ideas are borrowed from other more classical approaches here they are used and organized in a novel way yielding a distinct perspective on how to approach this kind of optimization problems Starting with a discussion of the background motivation the book broadly explains the sub relaxation method in general terms helping readers to grasp from the very beginning the driving idea and where the text is heading In addition to the analytical content of the method it examines practical issues like optimality and numerical approximation Though the primary focus is on the development of the method for the conductivity context the book s final two chapters explore several extensions of the method to other problems as well as formal proofs The text can be used for a graduate course in optimal design even if the method would require some familiarity with the main analytical issues associated with this type of problems This can be addressed with the help of the provided bibliography

Numerical Methods for Free Boundary Problems VEITTAANMÄKI, 2013-11-22 About 80 participants from 16 countries attended the Conference on Numerical Methods for Free Boundary Problems held at the University of Jyväskylä Finland July 23-27 1990 The main purpose of this conference was to provide up to date information on important directions of research in the field of free boundary problems and their numerical solutions The contributions contained in this volume cover the lectures given in the conference The invited lectures were given by H W Alt V Barbu K H Hoffmann H Mittelmann and V Rivkind In his lecture H W Alt considered a mathematical model and existence theory for non isothermal phase separations in binary systems The lecture of V Barbu was on the approximate solvability of the inverse one phase Stefan problem K H Hoffmann gave an up to date survey of several directions in free boundary problems and listed several applications but the material of his lecture is not included in this proceedings H D Mittelmann handled the stability of thermo capillary convection in float zone crystal growth V Rivkind considered numerical methods for solving coupled Navier Stokes and Stefan equations Besides of those invited lectures mentioned above there were 37 contributed papers presented We shall briefly outline the topics of the contributed papers

Stefan like problems Modelling existence and uniqueness

Applications of the Topological Derivative Method Antonio André Novotny, Jan Sokołowski, Antoni Żochowski, 2018-12-28 The book presents new results and applications of the topological derivative method in control theory topology optimization and inverse problems It also introduces the theory in singularly perturbed geometrical domains using selected examples Recognized as a robust numerical technique in engineering applications such as topology optimization inverse problems imaging processing multi scale material design and mechanical modeling including damage and fracture evolution phenomena the topological derivative method is based on the asymptotic approximations of solutions to elliptic boundary value problems combined with mathematical programming tools The book presents the first order topology design algorithm and its applications in topology optimization and introduces the second order Newton type reconstruction algorithm based on higher order topological derivatives for solving inverse reconstruction problems It is intended for researchers and students in applied mathematics and computational mechanics interested in the mathematical aspects of the topological derivative method as well as its applications in computational mechanics

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Memoirs of the Scientific Sections of the Academy of the Socialist Republic of Romania, 2006

Mathematical Problems in Shape Optimization and Shape Memory Materials Antoni Zochowski, 1992 The book is devoted to nonlinear mathematical problems encountered in modern structural design shape optimization and smart materials In the first part a method of sensitivity calculations for singular elliptic problems is proposed and its correctness as well as some properties are proved Examples of applications are given The second part concerns structures reinforced with shape memory materials The existence uniqueness and differentiability properties of solutions to dynamic problems are proved based on the Landau Devonshire shape memory effect model Finally an approach to the description of noncrystalline shape memory materials with preliminary existence results is presented

Coupled Fluid Flow in Energy, Biology and Environmental Research Matthias Ehrhardt, 2012-03-31 Progress in Computational Physics is a new e book series devoted to recent research trends in computational physics It contains chapters contributed by outstanding experts of modeling of physical problems The series focuses on interdisciplinary computational perspectives of current physical challenges new

numerical techniques for the solution of mathematical wave equations and describes certain real world applications With the help of powerful computers and sophisticated methods of numerical mathematics it is possible to simulate many ultramodern devices e g photonic crystals structures semiconductor nanostructures or fuel cell stacks devices thus preventing expensive and longstanding design and optimization in the laboratories In this book series research manuscripts are shortened as single chapters and focus on one hot topic per volume Engineers physicists meteorologists etc and applied mathematicians can benefit from the series content Readers will get a deep and active insight into state of the art modeling and simulation techniques of ultra modern devices and problems The second volume of this series titled Coupled Fluid Flow in Energy Biology and Environmental Research covers the following scientific topics in the fields of modeling numerical methods and applications Coupling between free and porous media flow Coupling of flow and transport models Coupling of atmospheric and ground water models This second volume contains both the mathematical analysis of the coupling between fluid flow and porous media flow and state of the art numerical techniques like tailor made finite element and finite volume methods Finally readers will come across articles devoted to concrete applications of these models in the field of energy biology and environmental research

Advances in Design Automation, 1989 Bahram Ravani,1989 **Discussiones Mathematicae** ,2000 Foundations of Structural Optimization A. J. Morris,1982 **System Modelling and Optimization** Peter Kall,1992 **Shape Optimization Problems** Hideyuki Azegami,2020-09-30 This book provides theories on non parametric shape optimization problems systematically keeping in mind readers with an engineering background Non parametric shape optimization problems are defined as problems of finding the shapes of domains in which boundary value problems of partial differential equations are defined In these problems optimum shapes are obtained from an arbitrary form without any geometrical parameters previously assigned In particular problems in which the optimum shape is sought by making a hole in domain are called topology optimization problems Moreover a problem in which the optimum shape is obtained based on domain variation is referred to as a shape optimization problem of domain variation type or a shape optimization problem in a limited sense Software has been developed to solve these problems and it is being used to seek practical optimum shapes However there are no books explaining such theories beginning with their foundations The structure of the book is shown in the Preface The theorems are built up using mathematical results Therefore a mathematical style is introduced consisting of definitions and theorems to summarize the key points This method of expression is advanced as provable facts are clearly shown If something to be investigated is contained in the framework of mathematics setting up a theory using theorems prepared by great mathematicians is thought to be an extremely effective approach However mathematics attempts to heighten the level of abstraction in order to understand many things in a unified fashion This characteristic may baffle readers with an engineering background Hence in this book an attempt has been made to provide explanations in engineering terms with examples from mechanics after accurately denoting the provable facts using

definitions and theorems *Optimization: Methods and Applications, Possibilities and Limitations* H.W. Bergmann, 1989-05-26 In 1984 the German Aerospace Research Establishment Deutsche Forschungsanstalt für Luft und Raumfahrt e V DLR Initiated a series of seminars related to fundamental problems in fluid mechanics flight mechanics guidance and control materials and structures non nuclear energetics communication technology and remote sensing The main purpose of the seminars is to bring modern ideas and techniques in these fields to the attention of DLR scientists and engineers in order to stimulate internal activities as well as international cooperation To this end prominent speakers are invited to join in a series of lectures and discussions on topics of mutual interest After the preceding seminars 1984 Nonlinear Dynamics in Transcritical Flows 1985 Uncertainty and Control 1986 Artificial Intelligence and Man Machine Systems 1987 Parallel Computing in Science and Engineering 1988 Hydrocarbon Oxidation a sixth seminar on Optimization Methods and Applications Possibilities and Limitations is being conducted In 1989 Optimization takes place wherever a choice among alternatives exists in daily life in economics in politics in nature and also in engineering The availability of powerful computers makes it possible to solve complex optimization problems efficiently and to react flexibly to changes of requirements The seminar addresses the potential of a systematic computer aided approach to optimization problems The presentations include fundamental principles and practical applications to aerospace structures as well as evolution techniques and biotechnological optimization processes **Applied Mechanics Reviews** ,1993 Kybernetika ,1993

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