

Optimal Shape Design for Elliptic Systems (Scientific Computation)

Pironneau, Olivier

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Optimal Shape Design For Elliptic Systems

Professor of Mathematics O Pironneau



Optimal Shape Design For Elliptic Systems:

Optimal Shape Design for Elliptic Systems O. Pironneau, 2012-12-06 The study of optimal shape design can be arrived at by asking the following question What is the best shape for a physical system This book is an applications oriented study of such physical systems in particular those which can be described by an elliptic partial differential equation and where the shape is found by the minimum of a single criterion function There are many problems of this type in high technology industries In fact most numerical simulations of physical systems are solved not to gain better understanding of the phenomena but to obtain better control and design Problems of this type are described in Chapter 2 Traditionally optimal shape design has been treated as a branch of the calculus of variations and more specifically of optimal control This subject interfaces with no less than four fields optimization optimal control partial differential equations PDEs and their numerical solutions this is the most difficult aspect of the subject Each of these fields is reviewed briefly PDEs Chapter 1 optimization Chapter 4 optimal control Chapter 5 and numerical methods Chapters 1 and 4

Optimal Shape Design for Elliptic Systems Professor of Mathematics O Pironneau, 1983-12-01 *Multigrid Methods for Optimal Shape Design Governed by Elliptic Systems* Eyal Arian, 1994 *Controllability Properties for Elliptic Systems, the Fictitious Domain Method and Optimal Shape Design Problems* Dan Tiba, 1991 Abstract The fictitious domain method is used in the numerical solution of partial differential equations in exterior domains or in order to apply finite differences to systems defined in domains with a complicated geometry The principle of this approach is very useful in problems with unknown or variable domains Taking into account certain exact controllability properties for linear or nonlinear elliptic equations we develop an approximation method for optimal design problems by distributed control problems in a fixed domain *Applied Shape Optimization for Fluids* Bijan Mohammadi, Olivier Pironneau, 2010 Contents PREFACE ACKNOWLEDGEMENTS 1 Introduction 2 Optimal shape design 3 Partial differential equations for fluids 4 Some numerical methods for fluids 5 Sensitivity evaluation and automatic differentiation 6 Parameterization and implementation issues 7 Local and global optimization 8 Incomplete sensitivities 9 Consistent approximations and approximate gradients 10 Numerical results on shape optimization 11 Control of unsteady flows 12 From airplane design to microfluidic 13 Topological optimization for fluids 14 Conclusion and perspectives INDEX

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 inequalities 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

Seventh Copper Mountain Conference on Multigrid Methods, 1996

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

Progress In Astronautics and Aeronautics Manohar P. Kamat, 1993

Numerical Mathematics and Advanced Applications Alfredo Bermúdez de Castro, Dolores Gómez, Peregrina Quintela, Pilar Salgado, 2007-10-08 These proceedings collect lectures given at ENUMATH 2005 the 6th European Conference on Numerical Mathematics and Advanced Applications held in Santiago de Compostela Spain in July 2005 Topics include applications such as fluid dynamics electromagnetism structural mechanics interface problems waves finance heat transfer unbounded domains numerical linear algebra convection diffusion as well as methodologies such as a posteriori error estimates discontinuous Galerkin methods multiscale methods optimization and more

Partial Differential Equations Roland Glowinski, Pekka Neittaanmäki, 2008-06-26 For more than 250 years partial differential equations have been clearly the most important tool available to mankind in order to understand a large variety of phenomena natural at first and then those originating from man activity and technological development Mechanics physics and their engineering applications were the first to benefit from the impact of partial differential equations on modeling and design but a little less than a century ago the Schrödinger equation was the key opening the door to the application of partial differential equations to quantum chemistry for small atomic and molecular systems at first but then for systems of fast growing complexity The place of partial differential equations in mathematics is a very particular one initially the partial differential equations modeling natural phenomena were derived by combining calculus with physical reasoning in order to press conservation laws and principles in partial differential equation form leading to the wave equation the heat equation the equations of elasticity the Euler and Navier Stokes

equations for uids the Maxwell equations of electro magnetics etc It is in order to solve constructively the heat equation that Fourier developed the series bearing his name in the early 19th century Fourier series and later integrals have played and still play a fundamental role in both pure and applied mathematics including many areas quite remote from partial differential equations On the other hand several areas of mathematics such as differential geometry have benefited from their interactions with partial differential equations

Shape Optimization and Unilateral Boundary Value Problems Timo Tiihonen, 1987
Mathematical Reviews, 1996 **Control of Distributed Parameter Systems 1989** M. Amouroux, A. El
 Jai, 2014-06-28 This volume presents state of the art reports on the theory and current and future applications of control of distributed parameter systems The papers cover the progress not only in traditional methodology and pure research in control theory but also the rapid growth of its importance for different applications This title will be of interest to researchers working in the areas of mathematics automatic control computer science and engineering SIAM Journal on Control and Optimization Society for Industrial and Applied Mathematics, 2007 **Topological Methods in Nonlinear Analysis**, 2000
IMACS '91 Robert Vichnevetsky, John James Henry Miller, 1991 *SIAM Journal on Scientific Computing*, 2007
Equations aux dérivées partielles et applications Jacques-Louis Lions, 1998 Journal of analysis and its application, 1999

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