Introduction to Shape Optimization

Theory, Approximation, and Computation

J. Haslinger
R. A. E. Mäkinen

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Katrin Zwirglmaier

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   Introduction to Shape Optimization J. Haslinger,R. A. E. Makinen,2003-01-01 The efficiency and reliability of manufactured products depend on among other things geometrical aspects it is therefore not surprising that optimal shape design problems have attracted the interest of applied mathematicians and engineers This self contained elementary introduction to the mathematical and computational aspects of sizing and shape optimization enables readers to gain a firm understanding of the theoretical and practical aspects so they may confidently enter this field Introduction to Shape Optimization Theory Approximation and Computation treats sizing and shape optimization comprehensively covering everything from mathematical theory existence analysis discretizations and convergence analysis for discretized problems through computational aspects sensitivity analysis numerical minimization methods to industrial applications Applications include contact stress minimization for elasto plastic bodies multidisciplinary optimization of an airfoil and shape optimization of a dividing tube By presenting sizing and shape optimization in an abstract way the authors are able to use a unified approach in the mathematical analysis for a large class of optimization problems in various fields of physics Audience the book is written primarily for students of applied mathematics scientific computing and mechanics Most of the material is directed toward graduate students although a portion of it is suitable for senior undergraduate students Readers are assumed to have some knowledge of partial differential equations and their numerical solution as well as modern programming language such as C Fortran 90 *Introduction to Shape Optimization* J. Haslinger,R. A. E. Makinen,2003-01-01 Treats sizing and shape optimization in a comprehensive way covering everything from mathematical theory through computational aspects to industrial applications *Introduction to Shape Optimization* Jan Sokolowski,Jean-Paul Zolesio,2012-12-06 This book is motivated largely by a desire to solve shape optimization prob lems that arise in applications particularly in structural mechanics and in the optimal control of distributed parameter systems Many such problems can be formulated as the minimization of functionals defined over a class of admissible domains Shape optimization is quite indispensable in the design and construction of industrial structures For example aircraft and spacecraft have to satisfy at the same time very strict criteria on mechanical performance while weighing as little as possible The shape optimization problem for such a structure consists in finding a geometry of the structure which minimizes a given functional e g such as the weight of the structure and yet simultaneously satisfies specific constraints like thickness strain energy or displacement bounds The geometry of the structure can be considered as a given domain in the three dimensional Euclidean space The domain is an open bounded set whose topology is given e g it may be simply or doubly connected The boundary is smooth or piecewise smooth so boundary value problems that are defined in the domain and associated with the classical partial differential equations of mathematical physics are well posed In general the cost functional takes the form of an integral over the domain or its boundary where the integrand depends smoothly on the solution of a boundary value problem

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