Modeling and Simulation in Science, Engineering and Technology

Numerical Methods in Sensitivity Analysis and Shape Optimization

> Emmanuel Laporte Patrick Le Tallec



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Numerical Methods In Sensitivity Analysis And Shape Optimization

Tony F. Chan, Yunqing Huang, Tao Tang, Jinchao Xu, Lung-an Ying

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Numerical Methods in Sensitivity Analysis and Shape Optimization Emmanuel Laporte, Patrick Le Tallec, 2012-12-06 Sensitivity analysis and optimal shape design are key issues in engineering that have been affected by advances in numerical tools currently available This book and its supplementary online files presents basic optimization techniques that can be used to compute the sensitivity of a given design to local change or to improve its performance by local optimization of these data The relevance and scope of these techniques have improved dramatically in recent years because of progress in discretization strategies optimization algorithms automatic differentiation software availability and the power of personal computers Numerical Methods in Sensitivity Analysis and Shape Optimization will be of interest to graduate students involved in mathematical modeling and simulation as well as engineers and researchers in applied mathematics looking for an up to date introduction to optimization techniques sensitivity analysis and optimal design *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 Shape Design Sensitivity Analysis and Optimization Using the Boundary **Element Method** Zhiye Zhao, 2012-12-06 This book investigates the various aspects of shape optimization of two dimensional continuum structures including shape design sensitivity analysis structural analysis using the boundary element method BEM and shape optimization implementation The book begins by reviewing the developments of shape optimization followed by the presentation of the mathematical programming methods for solving optimization problems. The basic theory of the BEM is presented which will be employed later on as the numerical tool to provide the structural responses and the shape design sensitivities. The key issue of shape optimization the shape design sensitivity analysis is fully investigated A general formulation of stress sensitivity using the continuum approach is presented. The difficulty of the modelling of the ad

joint problem is studied and two approaches are presented for the modelling of the adjoint problem The first approach uses distributed loads to smooth the concentrated adjoint loads and the second approach employs the singularity subtraction method to remove the singular boundary displacements and tractions from the BEM equation A novel finite difference based approach to shape design sensitivity is pre sented which overcomes the two drawbacks of the conventional finite difference method This approach has the advantage of being simple in concept and eas ier implementation A shape optimization program for two dimensional continuum structures is developed including structural analysis using the BEM shape design sensitiv ity analysis mathematical programming and the design boundary modelling

Applied Mechanics Reviews ,1984

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

Recent Progress in Computational and Applied PDES Tony F. Chan, Yunging Huang, Tao Tang, Jinchao Xu, Lung-an Ying, 2012-12-06 The book discusses some key scientific and technological developments in computational and applied partial differential equations It covers many areas of scientific computing including multigrid methods image processing finite element analysis and adaptive computations It also covers software technology algorithms and applications Most papers are of research level and are contributed by some well known mathematicians and computer scientists. The book will be useful to engineers computational scientists and graduate students **Inverse Problems in Engineering Mechanics II** G.S. Dulikravich, Mana Tanaka, 2000-12-11 Inverse Problems are found in many areas of engineering mechanics and there are many successful applications e.g. in non destructive testing and characterization of material properties by ultrasonic or X ray techniques thermography etc Generally speaking inverse problems are concerned with the determination of the input and the characteristics of a system given certain aspects of its output Mathematically such problems are ill posed and have to be overcome through development of new computational schemes regularization techniques objective functionals and experimental procedures Following the IUTAM Symposium on these topics held in May 1992 in Tokyo another in November 1994 in Paris and also the more recent ISIP 98 in March 1998 in Nagano it was concluded that it would be fruitful to gather regularly with researchers and engineers for an exchange of the newest research ideas The most recent Symposium of this series International Symposium on Inverse Problems in Engineering Mechanics ISIP2000 was held in March of 2000 in Nagano Japan where recent developments in inverse problems in engineering mechanics and related topics were discussed

The following general areas in inverse problems in engineering mechanics were the subjects of ISIP2000 mathematical and computational aspects of inverse problems parameter or system identification shape determination sensitivity analysis optimization material property characterization ultrasonic non destructive testing elastodynamic inverse problems thermal inverse problems and other engineering applications. The papers in these proceedings provide a state of the art review of the research on inverse problems in engineering mechanics and it is hoped that some breakthrough in the research can be made and that technology transfer will be stimulated and accelerated due to their publication Simulation of Material Processing: Theory, Methods and Application Ken-ichiro Mori, 2001-01-01 This volume contains about 180 papers including seven keynotes presented at the 7th NUMIFORM Conference It reflects the state of the art of simulation of industrial forming processes such as rolling forging sheet metal forming injection moulding and casting **Aerospace Science and Engineering** Andrea Alaimo, Antonio Esposito, Marco Petrolo, 2024-07-05 The Aerospace PhD Days are organized by the Italian Association of Aeronautics and Astronautics AIDAA and are open to PhD students working on Aerospace Science and Engineering topics The 2024 proceedings edition has 42 presentations with authors from more than ten institutions including delegates from China Germany Lithuania and Switzerland Many aerospace disciplines and topics were covered such as fluid dynamics structures stratospheric balloons maintenance and operations UAV dynamics and control space systems sustainability of aeronautics and space aeroelasticity multiphysics space debris aeroacoustics navigation and traffic management additive manufacturing and human machine interaction Keywords Luid Dynamics Structures Stratospheric Balloons Maintenance and Operations UAV Dynamics and Control Space Systems Sustainability of Aeronautics and Space Aeroelasticity Multiphysics Space Debris Aeroacoustics Navigation and Traffic Management Additive Manufacturing Human Machine Interaction Computational Mechanics Zhenhan Yao, Mingwu Yuan, 2009-03-24 Computational Mechanics is the proceedings of the International Symposium on Computational Mechanics ISCM 2007 This conference is the first of a series created by a group of prominent scholars from the Mainland of China Hong Kong Taiwan and overseas Chinese who are very active in the field The book includes 22 full papers of plenary and semi plenary lectures and approximately 150 one page summaries

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