

*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

M. Amouroux,A. El Jai

Numerical Methods In Sensitivity Analysis And Shape Optimization:

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 problems 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 adjoint 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 presented which overcomes the two drawbacks of the conventional finite difference method. This approach has the advantage of being simple in concept and easier implementation. A shape optimization program for two dimensional continuum structures is developed including structural analysis using the BEM, shape design sensitivity analysis, mathematical programming and the design boundary modelling. [Introduction to Shape Optimization](#) J. Haslinger, R. A. E. Mäkinen, 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.

Sensitivity analysis and shape optimization of geometrically non-linear structures, 2000. Este trabalho propõe uma metodologia para a otimização de forma de estruturas geometricamente não-lineares. O objetivo desta metodologia é evitar os problemas de instabilidade apresentados por estruturas otimizadas de acordo com a fórmula clássica. Ela foi implementada para problemas bidimensionais e os resultados obtidos na otimização de diferentes estruturas demonstraram o seu sucesso. Utilizando-se conceitos de modelagem geométrica a forma da estrutura é definida através das curvas de seu contorno. Assim a representação paramétrica de curvas é definida destas em função de um conjunto de pontos de interpolação. Os pontos-chave são discutidos detalhadamente. A fase de interpolação é realizada através de B-splines devido à sua grande flexibilidade. O problema de otimização é definido com base no modelo geométrico e as variáveis de projeto são as coordenadas dos pontos-chave. A simetria da estrutura é garantida através da ligação de variáveis. A estrutura analisada é realizada através de elementos isoparamétricos.

planos Assim antes de realizar a análise necessário discretizar a estrutura em um conjunto de elementos finitos Para realizar esta tarefa foram implementados diferentes algoritmos de geração de malhas tanto estruturadas quanto não estruturadas O método de Newton Raphson utilizado para determinar a configuração de equilíbrio e diferentes métodos podem ser aplicados para determinar os pontos críticos Devido aos problemas de convergência apresentados pelos métodos diretos para a determinação dos pontos críticos um método semi direto foi desenvolvido neste trabalho Os resultados obtidos na análise de diferentes exemplos mostraram a adequação dos elementos finitos e dos métodos numéricos implementados Os algoritmos de programação matemática utilizados neste trabalho precisam dos gradientes da função objetivo e das restrições que são calculadas com base nos gradientes das respostas da estrutura Partindo-se de equações gerais válidas para quaisquer elementos foram desenvolvidas expressões analíticas que permitem o cálculo exato das sensibilidades de elementos finitos isoparamétricos formulados através do procedimento Lagrangiano Total O desenvolvimento e a implementação de expressões semelhantes para elementos mais complexos uma tarefa bastante dura Por outro lado o método das diferenças finitas simples e genérico é muito caro computacionalmente O método semi-analítico mantém as vantagens da utilização de diferenças finitas e possui um custo computacional baixo porém pode apresentar sérios problemas de precisão Devido a estes motivos foi desenvolvido neste trabalho um procedimento para melhorar a qualidade das sensibilidades semi-analíticas de estruturas geometricamente não-lineares O procedimento baseado na diferença exata dos movimentos de corpo rígido do elemento utilizado Os resultados numéricos obtidos demonstraram a sua eficiência

Applied Mechanics Reviews ,1991 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

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

Shape optimization of valve geometry with contact analysis, Sensitivity Analysis and Optimization with Numerical Methods, Winter Annual Meeting of the ASME, Nov. 25-30 1990, v 115, p 71-78 A. D.

Belegundu,1990 **International Workshop on Fluid-Structure Interaction. Theory, Numerics and Applications**

Stefan Hartmann,Andreas Meister,Michael Schäfer,Stefan Turek,2009 *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

Sensitivity Analysis and Optimization with Numerical Methods American Society of Mechanical Engineers. Winter Annual Meeting,1990 **Computer Aided Optimal Design: Structural and Mechanical Systems** Carlos A. Mota

Soares,2012-12-06 This book contains the edited version of lectures and selected papers presented at the NATO ADVANCED STUDY INSTITUTE ON COMPUTER AIDED OPTIMAL DESIGN Structural and Mechanical Systems held in Tr6ia Portugal 29th June to 11th July 1986 and organized by CEMUL Center of Mechanics and Materials of the Technical University of Lisbon The Institute was attended by 120 participants from 21 countries including leading scientists and engineers from universities research institutions and industry and Ph D students Some participants presented invited and contributed papers during the Institute and almost all participated actively in discussions on scientific aspects during the Institute The Advanced Study Institute provided a forum for interaction among eminent scientists and engineers from different schools of thought and young researchers The Institute addressed the foundations and current state of the art of essential techniques related to computer aided optimal design of structural and mechanical systems namely Variational and Finite Element Methods in Optimal Design Numerical Optimization Techniques Design Sensitivity Analysis Shape Optimal Design Adaptive Finite Element Methods in Shape Optimization CAD Technology Software Development Techniques Integrated Computer Aided Design and Knowledge Based Systems Special topics of growing importance were also presented

Structural Sensitivity Analysis and Optimization 2 K. K. Choi,Nam-Ho Kim,2006-12-22 Extensive numerical methods for computing design sensitivity are included in the text for practical application and software development The numerical method allows integration of CAD FEA DSA software tools so that design optimization can be carried out using CAD geometric models

instead of FEA models This capability allows integration of CAD CAE CAM so that optimized designs can be manufactured effectively [ICIAM 91](#) Robert E. O'Malley,1992-01-01 Proceedings Computer Arithmetic Algebra OOP [The CRC Handbook of Mechanical Engineering](#) D. Yogi Goswami,2004-09-29 The second edition of this standard setting handbook provides and all encompassing reference for the practicing engineer in industry government and academia with relevant background and up to date information on the most important topics of modern mechanical engineering These topics include modern manufacturing and design robotics computer engineering environmental engineering economics patent law and communication information systems The final chapter and appendix provide information regarding physical properties and mathematical and computational methods New topics include nanotechnology MEMS electronic packaging global climate change electric and hybrid vehicles and bioengineering

Concurrent Engineering: Tools and Technologies for

Mechanical System Design Edward J. Haug,2012-12-06 These proceedings contain lectures presented at the NATO Advanced Study Institute on Concurrent Engineering Tools and Technologies for Mechanical System Design held in Iowa City Iowa 25 May 5 June 1992 Lectures were presented by leaders from Europe and North America in disciplines contributing to the emerging international focus on Concurrent Engineering of mechanical systems Participants in the Institute were specialists from throughout NATO in disciplines constituting Concurrent Engineering many of whom presented contributed papers during the Institute and all of whom participated actively in discussions on technical aspects of the subject The proceedings are organized into the following five parts Part 1 Basic Concepts and Methods Part 2 Application Sectors Part 3 Manufacturing Part 4 Design Sensitivity Analysis and Optimization Part 5 Virtual Prototyping and Human Factors Each of the parts is comprised of papers that present state of the art concepts and methods in fields contributing to Concurrent

Engineering of mechanical systems The lead off papers in each part are based on invited lectures followed by papers based on contributed presentations made by participants in the Institute [Design Sensitivity Analysis and Optimization of Electromagnetic Systems](#) Il Han Park,2018-08-27 This book presents a comprehensive introduction to design sensitivity analysis theory as applied to electromagnetic systems It treats the subject in a unified manner providing numerical methods and design examples The specific focus is on continuum design sensitivity analysis which offers significant advantages over discrete design sensitivity methods Continuum design sensitivity formulas are derived from the material derivative in continuum mechanics and the variational form of the governing equation Continuum sensitivity analysis is applied to Maxwell equations of electrostatic magnetostatic and eddy current systems and then the sensitivity formulas for each system are derived in a closed form an integration along the design interface The book also introduces the recent breakthrough of the topology optimization method which is accomplished by coupling the level set method and continuum design sensitivity This topology optimization method enhances the possibility of the global minimum with minimised computational time and in addition the evolving shapes during the iterative design process are easily captured in the level set equation Moreover since

the optimization algorithm is transformed into a well known transient analysis algorithm for differential equations its numerical implementation becomes very simple and convenient Despite the complex derivation processes and mathematical expressions the obtained sensitivity formulas are very straightforward for numerical implementation This book provides detailed explanation of the background theory and the derivation process which will help readers understand the design method and will set the foundation for advanced research in the future *Mathematical Modeling and Optimization of Complex Structures* Pekka Neittaanmäki, Sergey Repin, Tero Tuovinen, 2015-10-07 This volume contains selected papers in three closely related areas mathematical modeling in mechanics numerical analysis and optimization methods The papers are based upon talks presented on the International Conference for Mathematical Modeling and Optimization in Mechanics held in Jyväskylä Finland March 6-7 2014 dedicated to Prof N Banichuk on the occasion of his 70th birthday The articles are written by well known scientists working in computational mechanics and in optimization of complicated technical models Also the volume contains papers discussing the historical development the state of the art new ideas and open problems arising in modern continuum mechanics and applied optimization problems Several papers are concerned with mathematical problems in numerical analysis which are also closely related to important mechanical models The main topics treated include Computer simulation methods in mechanics physics and biology Variational problems and methods minimization algorithms Optimal control problems with distributed and discrete control Shape optimization and shape design problems in science and engineering Sensitivity analysis and parameters optimization of complex systems **ASME Technical Papers**, 1998

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