

A. Gajewski and M. Zyczkowski

Optimal Structural Design under Stability Constraints

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Antoni Gajewski, Michal Zyczkowski



Optimal Structural Design Under Stability Constraints:

Optimal Structural Design under Stability Constraints Antoni Gajewski, Michal Zyczkowski, 2011-10-18 The first optimal design problem for an elastic column subject to buckling was formulated by Lagrange over 200 years ago However rapid development of structural optimization under stability constraints occurred only in the last twenty years In numerous optimal structural design problems the stability phenomenon becomes one of the most important factors particularly for slender and thin walled elements of aerospace structures ships precision machines tall buildings etc In engineering practice stability constraints appear more often than it might be expected even when designing a simple beam of constant width and variable depth the width if regarded as a design variable is finally determined by a stability constraint lateral stability Mathematically optimal structural design under stability constraints usually leads to optimization with respect to eigenvalues but some cases fall even beyond this type of problems A total of over 70 books has been devoted to structural optimization as yet but none of them has treated stability constraints in a sufficiently broad and comprehensive manner The purpose of the present book is to fill this gap The contents include a discussion of the basic structural stability and structural optimization problems and the pertinent solution methods followed by a systematic review of solutions obtained for columns arches bar systems plates shells and thin walled bars A unified approach based on Pontryagin's maximum principle is employed inasmuch as possible at least to problems of columns arches and plates Parametric optimization is discussed as well

Optimal Structural Design under Stability Constraints Antoni Gajewski, Michal Zyczkowski, 2012-12-06 The first optimal design problem for an elastic column subject to buckling was formulated by Lagrange over 200 years ago However rapid development of structural optimization under stability constraints occurred only in the last twenty years In numerous optimal structural design problems the stability phenomenon becomes one of the most important factors particularly for slender and thin walled elements of aerospace structures ships precision machines tall buildings etc In engineering practice stability constraints appear more often than it might be expected even when designing a simple beam of constant width and variable depth the width if regarded as a design variable is finally determined by a stability constraint lateral stability Mathematically optimal structural design under stability constraints usually leads to optimization with respect to eigenvalues but some cases fall even beyond this type of problems A total of over 70 books has been devoted to structural optimization as yet but none of them has treated stability constraints in a sufficiently broad and comprehensive manner The purpose of the present book is to fill this gap The contents include a discussion of the basic structural stability and structural optimization problems and the pertinent solution methods followed by a systematic review of solutions obtained for columns arches bar systems plates shells and thin walled bars A unified approach based on Pontryagin's maximum principle is employed inasmuch as possible at least to problems of columns arches and plates Parametric optimization is discussed as well

Elements of Structural Optimization Raphael T. Haftka, Zafer Gürdal, 2012-12-06 The field of structural optimization is still a relatively new field

undergoing rapid changes in methods and focus Until recently there was a severe imbalance between the enormous amount of literature on the subject and the paucity of applications to practical design problems This imbalance is being gradually redressed There is still no shortage of new publications but there are also exciting applications of the methods of structural optimizations in the automotive aerospace civil engineering machine design and other engineering fields As a result of the growing pace of applications research into structural optimization methods is increasingly driven by real life problems t Jost engineers who design structures employ complex general purpose software packages for structural analysis Often they do not have any access to the source program and even more frequently they have only scant knowledge of the details of the structural analysis algorithms used in this software packages Therefore the major challenge faced by researchers in structural optimization is to develop methods that are suitable for use with such software packages Another major challenge is the high computational cost associated with the analysis of many complex real life problems In many cases the engineer who has the task of designing a structure cannot afford to analyze it more than a handful of times

Recent Advances in Optimal Structural Design Scott A. Burns, 2002-01-01 Sponsored by the Technical Committee on Structural Design of the Technical Administrative Committee on Analysis and Computation of the Technical Activities Division of the Structural Engineering Institute of ASCE This report documents the dramatic new developments in the field of structural optimization over the last two decades Changes in both computational techniques and applications can be seen by developments in computational methods and solution algorithms the role of optimization during the various stages of structural design and the stochastic nature of design in relation to structural optimization Topics include methods for discrete variable structural optimization decomposition methods in structural optimization state of the art on the use of genetic algorithms in design of steel structures conceptual design optimization of engineering structures topology and geometry optimization of trusses and frames evolutionary structural optimization design and optimization of semi rigid framed structures optimized performance based design for buildings multi objective optimum design of seismic resistant structures and reliability and cost oriented optimal bridge maintenance planning The book concludes with an extensive bibliography of journal papers on structural optimization published between 1987 and 1999

Large-Scale Optimization with Applications Lorenz T. Biegler, 1997-07-31 With contributions by specialists in optimization and practitioners in the fields of aerospace engineering chemical engineering and fluid and solid mechanics the major themes include an assessment of the state of the art in optimization algorithms as well as challenging applications in design and control in the areas of process engineering and systems with partial differential equation models

Structural Optimization Under Stability and Vibration

Constraints M. Zyczkowski, 2014-05-04 Optimal design of structures leads as a rule to slender and thin walled shapes of the elements and such elements are subject to the loss of stability Hence the constraints of structural optimization usually include stability constraints expressed by some eigenvalues Optimal design under vibration constraints belongs also to

optimization with respect to eigenvalues The present volume gives a short introduction to structural optimization and then pays particular attention to multimodal optimization under stability and vibration constraints both in elastic and inelastic range One part is devoted to thin walled bars optimized for interactive buckling with imperfections taken into account The volume is of interest both to researchers and design engineers it covers the most recent results of multimodal and interactive optimization allowing for inelastic behaviour of structures and the constraints discussed appear in almost all problems of engineering design

Structural Design via Optimality Criteria George I. N. Rozvany, 2012-12-06 During the last two decades research on structural optimization became increasingly concerned with two aspects the application of general numerical methods of optimization to structural design of complex real structures and the analytical derivation of necessary and sufficient conditions for the optimality of broad classes of comparatively simple and more or less idealized structures Both kinds of research are important the first for obvious reasons the second because it furnishes information that is useful in testing the validity accuracy and convergence of numerical methods and in assessing the efficiency of practical designs

Prager and Rozvany 1977a The unexpected death of William Prager in March 1980 marked in a sense the end of an era in structural mechanics but his legacy of ideas will remain a source of inspiration for generations of researchers to come Since his nominal retirement in the early seventies Professor and Mrs Prager lived in Savognin an isolated alpine village and ski resort surrounded by some of Switzerland's highest mountains It was there that the author's close association with Prager developed through annual pilgrimages from Australia and lengthy discussions which pivoted on Prager's favourite topic of structural optimization These exchanges took place in the picturesque setting of Graubünden on the terrace of an alpine restaurant overlooking snow capped peaks on ski lifts or mountain walks or during evening meals in the cosy hotels of Savognin Parsonz and Riom

Engineering Optimization in Design Processes Hans A. Eschenauer, Claus Mattheck, Niels Olhoff, 2012-12-06 These proceedings contain the texts of 37 contributions presented at the International Conference on Engineering Optimization in an Industrial Environment which took place on 3-4 September 1990 at the Karlsruhe Nuclear Research Center I H Germany The presentations consisted of oral and poster contributions arranged in five sessions Shape and layout optimization Structural optimization with advanced materials Optimal designs with special structural and material behaviour Sensitivity analysis Programme systems Optimization with stability constraints Special problems The editors wish to express their appreciation to all authors and invited speakers for their interesting contributions The proceedings cover a wide range of topics in structural optimization representing the present state of the art in the fields of research and in the industrial environment as well The editors hope that this book will also contribute towards new ideas and concepts in a world of ever decreasing natural resources and ever increasing demands for lighter and yet stronger and safer technical components Finally the editors wish to thank all colleagues who helped in the organisation of the conference especially Mrs E Schroder and Dr K Ilies as well as Mr A von Ilgen and Mrs E Haufelder Springer Publishing Company Heidelberg for the

good cooperation and help in the publication of these proceedings **Advances in Structural Optimization J.**

Herskovits, 2012-12-06 Advances in Structural Optimization presents the techniques for a wide set of applications ranging from the problems of size and shape optimization historically the first to be studied to topology and material optimization Structural models are considered that use both discrete and finite elements Structural materials can be classical or new Emerging methods are also addressed such as automatic differentiation intelligent structures optimization integration of structural optimization in concurrent engineering environments and multidisciplinary optimization For researchers and designers in industries such as aerospace automotive mechanical civil nuclear naval and offshore A reference book for advanced undergraduate or graduate courses on structural optimization and optimum design **Discretization Methods and Structural Optimization — Procedures and Applications** Hans A. Eschenauer, Georg Thierauf, 2012-12-06 In recent years the Finite Element Methods FEM were more and more employed in development and design departments as very fast working tools in order to determine stresses deformations eigenfrequencies etc for all kinds of constructions under complex loading conditions Meanwhile very effective software systems have been developed by various research teams although some mathematical problems e.g. convergence have not been solved satisfactorily yet In order to make further advances and to find a common language between mathematicians and mechanics the Society for Applied Mathematics and Mechanics GAMM agreed on the foundation of a special Committee Discretization Methods in Solid Mechanics focussing on the following problems Structuring of various methods displacement functions hybrid and mixed approaches etc Survey of approach functions Lagrange Hermite polynomials Spline functions Description of singularities Convergence and stability Practical and theoretical optimality to all mentioned issues single and interacting One of the basic aims of the GAMM Committee is the interdisciplinary cooperation between mechanics mathematicians and users which shall be intensified Thus on September 22 1985 the committee decided to hold a seminar on Structural Optimization in order to allow an exchange of experiences and thoughts between the experts of finite element methods and those of structural optimization A GAMM seminar entitled Discretization Methods and Structural Optimization Procedures and Applications was held on October 5-7 1988 at the University of Siegen **Optimization of Large Structural Systems** George I. N.

Rozvany, 2013-11-21 G. I. N. Rozvany ASI Director Professor of Structural Design FB 10 Essen University Essen Germany Structural optimization deals with the optimal design of all systems that consist at least partially of solids and are subject to stresses and deformations This integrated discipline plays an increasingly important role in all branches of technology including aerospace structural mechanical civil and chemical engineering as well as energy generation and building technology In fact the design of most man-made objects ranging from space ships and long span bridges to tennis rackets and artificial organs can be improved considerably if human intuition is enhanced by means of computer-aided systematic decisions In analysing highly complex structural systems in practice discretization is unavoidable because closed form

analytical solutions are only available for relatively simple idealized problems To keep discretization errors to a minimum it is desirable to use a relatively large number of elements Modern computer technology enables us to analyse systems with many thousand degrees of freedom In the optimization of structural systems however most currently available methods are restricted to at most a few hundred variables or a few hundred active constraints

Optimization of Large Structural Systems G. I. N. Rozvany,1993 This is the second of two volumes which examine structural optimization of large structural systems Topics covered in these volumes include optimality criteria and topology optimization decomposition methods and approximation concepts neural networks and parallel processing

Applied Mechanics Reviews ,1973

Optimization of Structural Topology, Shape, and Material Martin P. Bendsoe,2013-03-14 In the past the possibilities of structural optimization were restricted to an optimal choice of profiles and shape Further improvement can be obtained by selecting appropriate advanced materials and by optimizing the topology i e finding the best position and arrangement of structural elements within a construction The optimization of structural topology permits the use of optimization algorithms at a very early stage of the design process The method presented in this book has been developed by Martin Bendsoe in cooperation with other researchers and can be considered as one of the most effective approaches to the optimization of layout and material design

The Shock and Vibration Digest ,1992

Coupled Instabilities In Metal Structures 2000 (Cims 2000) Dinar Camotim,Dan Dubina,Jacques Rondal,2000-08-21 The subject of coupled instabilities is a fascinating field of research with a wide range of practical applications particularly in the analysis and design of metal structures Despite the excellent body of existing results concerning coupled instability structural behaviour this situation has not yet been adequately translated into design rules or specifications In fact only to a small extent do modern design codes for metal structures take advantage of the significant progress made in the field This book which contains all the invited general reports and selected papers presented at the Third International Conference on Coupled Instabilities in Metal Structures CIMS 2000 should provide a meaningful contribution towards filling the gap between research and practice

Structural Optimization George I. N. Rozvany,B.L. Karihaloo,2012-12-06 Proceedings of the IUTAM Symposium on Structural Optimization Melbourne Australia February 9 13 1988

Optimization of Gridshells Against Instability Considering Joints' Mechanical Performance Mingfei Lu,Jihong Ye,Hui Li,2025-08-10 This open access book introduces external factors such as loads and constraints into the theory of configurational vulnerability thereby overcoming the classical theory's inability to account for external influences Stability is a governing factor in the design of single layer gridshells becoming increasingly critical as the span grows However current design methodologies address stability primarily through post design verification which severs the intrinsic link between member design and overall structural stability This disjointed approach leads to iterative cycles of design and verification reducing efficiency Concurrently advances in industrialized construction have spurred the development of numerous innovative joints tailored for prefabricated construction These joints are neither

ideally rigid nor ideally hinged Yet prevailing design methods and stability verification processes still assume ideal rigid connections failing to incorporate the mechanical properties of joints and thereby constraining the adoption and application of these new designs This integration provides a novel perspective on instability mechanisms Based on the instability mechanisms of gridshells a stability optimization model is developed under the rigid joint assumption Due to the large number of variables involved in the optimization model conventional algorithms often prove inadequate To address this the study enhances the standard genetic algorithm by replacing its random mutation mechanism with a directed mutation mechanism significantly improving search efficiency The improved algorithm efficiently solves large scale stability optimization problems for single layer gridshells as validated using three gridshells of varying scales and two constructed examples To expand the forms of gridshell joints the study employs advanced topology optimization techniques to enhance rotational stiffness Simultaneously the study integrates the requirements of prefabricated construction by designing a universal connection interface capable of accommodating members from diverse orientations This effort culminates in the development of novel joint designs for spatial grid structures that are both mechanically efficient and construction friendly

Research in Progress ,1973

Electromechanical Coupling Theory, Methodology and Applications for High-Performance Microwave Equipment Baoyan Duan, Shuxin Zhang, 2022-11-15 Electromechanical Coupling Theory Methodology and Applications for High Performance Microwave Equipment Electromechanical Coupling Theory Methodology and Applications for High Performance Microwave Equipment is an authoritative and up to date guide to the structural mechanical and electrical aspects of electromechanical coupling Addressing control electromagnetism and structural engineering this comprehensive reference covers the electromechanical coupling of high performance microwave electronic equipment MEE such as antennas radar large radio telescopes and telecommunication and navigation equipment The book is divided into four main sections beginning with an introduction to electromechanical coupling EMC theory and a detailed description of the multi field coupling model MFCM and the influence mechanism IM of nonlinear factors of antenna servo feeder systems on performance Subsequent sections discuss MFCM and IM based design methodology EMC based measurement and testing computer software for coupling analysis and design of electronic equipment and various engineering applications of EMC theory and the IM of typical electronic equipment In addition the book Discusses information and data transfer in electromagnetic fields mechanical and structural deformation fields and temperature fields Explains how high performance microwave electronic equipment differs from traditional mechanical equipment Addresses EMC based and general design vector based optimization of electronic equipment design Describes applications such as a gun guided radar system for warships and a large diameter antenna for moon exploration Includes evaluation criteria to validate MFCM IM design theory and methodology Electromechanical Coupling Theory Methodology and Applications for High Performance Microwave Equipment is essential reading for circuit designers microwave engineers researchers working

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