

MECHANICS OF ELASTIC STABILITY

A. Gajewski and M. Zyczkowski

Optimal  
Structural Design  
under  
Stability Constraints

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# Optimal Structural Design Under Stability Constraints

**Florin Bobaru**

## **Optimal Structural Design Under Stability Constraints:**

*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.

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.

Applied Mechanics Reviews, 1988 **Finite Element**

**Approximation for Optimal Shape Design** J. Haslinger, Pekka Neittaanmäki, 1988 A text devoted to the mathematical basis of optimal shape design to finite element approximation and to numerical realization by applying optimization techniques. The aim is to computerize the design process, thus reducing the time needed to design or to improve an existing design.

*Discretization Methods and Structural Optimization – Procedures and Applications* Hans A. Eschenauer, Georg Thierauf, 1989-03-23 The main subject of this GAMM Seminar is research in the field of discretization methods and structural optimization. The topics are procedures, strategies, and algorithms for structural optimization based on modern discretization

techniques In particular sensitivity and mesh generation large scale structural systems and decomposition for finite element systems are covered Structural optimization is presented as multipurpose and multistage optimization Optimal design and shape optimization are treated in analytical form and as an interactive process Finally knowledge based algorithms for design optimization and expert systems are discussed   **Foundations of Structural Optimization** A. J. Morris,1982   *Journal of the Engineering Mechanics Division American Society of Civil Engineers. Engineering Mechanics Division,1980*   **A Collection of Technical Papers** ,1992   *Advances in Design Automation, 1990: Optimal design and mechanical systems analysis* Bahram Ravani,1990   Optimization of Distributed Parameter Structures Edward J. Haug,Jean Céa,1981   Applied Mechanics Update, 1986 American Society of Mechanical Engineers,1986   *MEET'N'93 ,1993 Abstracts* ,1993   **Advances in Dynamic Analysis of Plates and Shells - 1988** H. M. Chung,1988   *Civil-Comp 87* B. H. V. Topping,1987   **Sensitivity Analysis and Optimization with Numerical Methods** American Society of Mechanical Engineers. Winter Annual Meeting,1990   Meshless Methods in Shape Optimizaiton of Linear Elastic and Thermoelastic Solids Florin Bobaru,2001   Energy & Nuclear Sciences International Who's who ,1992   **Optimization of Distributed Parameter Structures — Volume I** E.J. Haug,Jean Cea,1981-10-31 These proceedings contain lectures and contributed papers presented at the NATO NSF Advanced Stucy Institute on Optimization of Distributed Parameter Structures Iowa City Iowa 21 May 4 June 1980 The institute was organized by E Haug and J Cea with the enthusiastic help of leading contributors to the field of distributed parameter structural optimization The principle con tributor to this field during the past two decades Professor William Prager participated in planning for the Institute and helped to establish its technical direction His death just prior to the Institute is a deep loss to the community of engineers and mathematicians in the field to which he made pioneering contri butions The proceedings are organized into seven parts each address ing important problems and special considerations involving classes of structural optimization problems The review paper presented first in the proceedings surveys contributions to the field primarily during the decade 1970 1980 Part I of the pro ceedings addresses optimality criteria methods for analyzing and solving problems of distributed parameter structural optimization Optimality criteria obtained using variational methods of mech anics calculus of variation optimal control theory and abstract optimization theory are presented for numerous classes of struct ures including beams columns plates grids shells and arches   *Bauingenieurwesen ,1987*

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