

THE OPTIMUM SHAPE Automated Structural Design

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General Motors Research Laboratories

 Springer

Optimum Shape Automated Structural Design

Mike Jess



Optimum Shape Automated Structural Design:

The Optimum Shape James Bennett, 2012-12-06 This book contains the papers presented at the International Symposium The Optimum Shape Automated Structural Design held at the General Motors Research Laboratories on September 30 October 1 1985 This was the 30th symposium in a series which the Research Laboratories began sponsoring in 1957 Each symposium has focused on a topic that is both under active study at the Research Laboratories and is also of interest to the larger technical community While attempts to produce a structure which performs a certain task with the minimum amount of resources probably predates recorded civilization the idea of coupling formal optimization techniques with computer based structural analysis techniques was first proposed in the early 1960s Although it was recognized at this time that the most fundamental description of the problem would be in terms of the shape or contours of the structure much of the early work described the problem in terms of structural sizing parameters instead of geometrical descriptions Within the past few years several research groups have started to explore this more fundamental area of shape design Initial research has raised many new questions about appropriate selection of design variables methods of calculating derivatives and generation of the underlying analysis problem

The Optimum Shape James Bennett, 1986-10-01 [Boundary Element Methods in Engineering](#) Balkrishna S. Annigeri, Kadin Tseng, 2012-12-06 The Boundary Element Method BEM has become established as an effective tool for the solutions of problems in engineering science The salient features of the BEM have been well documented in the open literature and therefore will not be elaborated here The BEM research has progressed rapidly especially in the past decade and continues to evolve worldwide This Symposium was organized to provide an international forum for presentation of current research in BEM for linear and nonlinear problems in solid and fluid mechanics and related areas To this end papers on the following topics were included rotary wing aerodynamics unsteady aerodynamics design and optimization elasticity elasto dynamics and elastoplasticity fracture mechanics acoustics diffusion and wave motion thermal analysis mathematical aspects and boundary finite element coupled methods A special session was devoted to parallel vector supercomputing with emphasis on massive parallelism This Symposium was sponsored by United Technologies Research Center UTRC NASA Langley Research Center and the International Association of Boundary Element Methods IABEM We thank the UTRC management for their permission to host this Symposium In particular we thank Dr Arthur S Kesten and Mr Robert E Olson for their encouragement and support We gratefully acknowledge the support of Dr E Carson Yates Jr of NASA Langley Prof Luigi Morino Dr Thomas A

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

Concurrent Engineering Andrew Kusiak,1993-01-12 Presents a top down approach to the design development testing and recyclability of products components and systems across a wide range of industries Starting with the desired result and working back through the details it shows how to produce goods taking into account the challenges of actual manufacture what the reliability requirements should be quality control associated costs customer needs and more Additional features include case studies and team negotiating Also well illustrated with figures photographs charts and tables and includes an extensive bibliography

Applied Mechanics Reviews ,1989 *The 34th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference, Adaptive Structures Forum: 93-1520 - 93-1587* ,1993 *Sensitivity Analysis in Engineering* ,1987 Sixteenth NASTRAN Users' Colloquium ,1988 International Journal of Systems Automation, Research & Applications ,1991 **A Collection of Technical Papers** ,1993 Advances in Design Automation ,1989 Bahram Ravani,1989 **A Collection of Technical Papers: Structures and materials** ,1987 Proceedings of the ... Design Engineering Technical Conferences ,1995 **NASA Conference Publication** ,1987 **Large Engineering Systems** ,1976 Nonlinear Computational Mechanics P. Wriggers,W. Wagner (PD Dr.-Ing. habil.),1991 The field of Computational Mechanics has grown very rapidly during the last decade This is due to the fact that modern engineering design needs complex models which can only be analyzed and simulated on powerful computers and workstations using numerical methods like finite element boundary element or finite difference techniques This volume presents an overview of current research areas representing the state of the art in the field of nonlinear computational mechanics The areas considered in more detail include the mathematical theory and numerical algorithms nonlinear finite element procedures boundary element techniques beam plate and shell formulations inelastic constitutive models and contact formulations The reader who is new in the field will get a fresh insight in current research areas which are of worldwide interest For the reader who is already working in the field of Computational Mechanics this volume presents aspects concerning the latest developments within this area

Proceedings of the ... Congress of the Indian Society of Theoretical and Applied Mechanics Indian Society of Theoretical and Applied Mechanics. Congress,2003 Large Engineering Systems Alvin Wexler,1977 Large Engineering Systems documents the proceedings of the International Symposium held at the University of Manitoba Canada on August 9 12 1976 This book compiles papers on the

technology of large engineering systems The topics discussed include the analysis of an automobile body by finite element method finite element solution of boundary integral equations optimum design of stiffened plate girders and tuning of miniaturized analog hybrid circuits The sparsity in large systems and trans shipment problems finite difference method with graded lattices Kron s multidimensional electrom *Advances in Design Automation, 1993: Design optimization, geometric modeling and tolerance analysis, mechanism synthesis and analysis, decomposition and design optimization ,1993*

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