

SOLID MECHANICS AND ITS APPLICATIONS

José Herskovits (Ed.)

Advances in Structural Optimization



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H. Adeli



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Optimization H. Adeli, 1994-02-24 This book summarizes advances in a number of fundamental areas of optimization with application in engineering design The selection of the best or optimum design has long been a major concern of designers and in recent years interest has grown in applying mathematical optimization techniques to design of large engineering and industrial system

Advances in Dual Methods and Convex Approximations for Structural Optimization Hichem Smaoui, 1988 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 *Advances in Structural*

Testing, Analysis & Design, 1990 Safety reliability and long term durability in hostile environments are amongst the demanding requirements governing the philosophy of modern structural design Structural design has been revolutionised by FEM and CAD CAM composite materials damage tolerance concepts structure control interactions etc The state of the art in most of these aspects are covered in these three volumes containing the proceedings of the Conference held from July 29 to August 3 1990

Advances in Architectural Geometry 2014 Philippe Block, Jan Knippers, Niloy J. Mitra, Wenping Wang, 2014-12-26 This book contains 24 technical papers presented at the fourth edition of the Advances in Architectural Geometry conference AAG 2014 held in London England September 2014 It offers engineers mathematicians designers and contractors insight into the efficient design analysis and manufacture of complex shapes which will help open up new horizons for architecture The book examines geometric aspects involved in architectural design ranging from initial

conception to final fabrication It focuses on four key topics applied geometry architecture computational design and also practice in the form of case studies In addition the book also features algorithms proposed implementation experimental results and illustrations Overall the book presents both theoretical and practical work linked to new geometrical developments in architecture It gathers the diverse components of the contemporary architectural tendencies that push the building envelope towards free form in order to respond to multiple current design challenges With its introduction of novel computational algorithms and tools this book will prove an ideal resource to both newcomers to the field as well as advanced practitioners

Topology Design Methods for Structural Optimization Osvaldo M. Querin, Mariano Victoria, Cristina Alonso Gordo, Rubén Ansola, Pascual Martí, 2017-06-09 Topology Design Methods for Structural Optimization provides engineers with a basic set of design tools for the development of 2D and 3D structures subjected to single and multi load cases and experiencing linear elastic conditions Written by an expert team who has collaborated over the past decade to develop the methods presented the book discusses essential theories with clear guidelines on how to use them Case studies and worked industry examples are included throughout to illustrate practical applications of topology design tools to achieve innovative structural solutions The text is intended for professionals who are interested in using the tools provided but does not require in depth theoretical knowledge It is ideal for researchers who want to expand the methods presented to new applications and includes a companion website with related tools to assist in further study Provides design tools and methods for innovative structural design focusing on the essential theory Includes case studies and real life examples to illustrate practical application challenges and solutions Features accompanying software on a companion website to allow users to get up and running fast with the methods introduced Includes input from an expert team who has collaborated over the past decade to develop the methods presented

Advanced Manufacturing and Automation XIII Yi Wang, Tao Yu, Kesheng Wang, 2024-02-24 The book is a compilation of selected papers from the 13th International Workshop of Advanced Manufacturing and Automation IWAMA 2023 held in Shanghai University of Engineering Science China on 15 16 October 2023 Topics focusing on novel techniques for manufacturing and automation in Industry 4 0 are now vital factors for the maintenance and improvement of the economy of a nation and the quality of life It will help academic researchers and engineers to implement the concept theory and methods in Industry 4 0 which has been a hot topic These proceedings will make valuable contributions to academic researchers engineers in the industry for the challenges in the 4th industry revolution and smart factories

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