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Designing Quiet Structures

A Sound Power Minimization Approach

**Gary H. Koopmann
John B. Fahline**



ACADEMIC PRESS



Designing Quiet Structures A Sound Power Minimization Approach

Raffaela Di Napoli



Designing Quiet Structures A Sound Power Minimization Approach:

Designing Quiet Structures Gary H. Koopmann, John B. Fahline, 1997-10-13 This book is the first of its kind It provides the reader with a logical and highly quantitative means of including noise as a parameter in the early design stages of a machine or structure The unique and unified methodology builds upon the familiar disciplines of acoustics structural dynamics and optimization It also exemplifies the art of simplification the essence of all good engineering design Strategies for designing quiet structures require extensive analytical and experimental tools For computing the sound power from complex structures the authors recommend a new 3 D lumped parameter formulation This fully developed user friendly program can be applied generally to noise control by design problems Detailed instructions for running the application are given in the appendix as well as several sample problems to help the user get started The authors also describe a new instrument a specially developed resistance probe used to measure a structure's acoustic surface resistance As an example the procedure is outlined for measuring the valve cover of an internal combustion engine Indeed throughout the book the reader is presented with actual experiments numerical and physical that they can replicate in their own laboratory This is a must have book for engineers working in industries that include noise control in the design of a product Its practical and didactic approach also makes it ideally suited to graduate students First text covering the design of quiet structures Written by two of the leading experts in the world in the area of noise control Strong in its integration of structural dynamics acoustics and optimization theory Accompanied by a computer program that allows the computation of sound power Presents numerous applications of noise control by design methods as well as methods for enclosed and open spaces Each chapter is supported by homework problems and demonstration experiments

IUTAM Symposium on Designing for Quietness MANOHAR LAL Munjal, 2013-04-17 It is well known that noise control at the source is the most cost effective Designing for quietness is therefore the most important concept in Engineering Acoustics or Technical Acoustics The IUTAM Symposium on Designing for Quietness held at the Indian Institute of Science Bangalore in December 2000 was probably the first on this topic anywhere in the world Papers were invited from reputed researchers and professionals spread over several countries 18 of the 21 papers presented in the Symposium are included in these proceedings after rigorous review revision and editing This volume covers a large number of applications such as silencers lined ducts acoustic materials source characterization acoustical design of vehicle cabs ships space antennas MEMS pressure transducer etc active control of structure borne noise and cavities SEA for engine noise and structural acoustic modelling with application to design of quieter panels A list of references at the end of every paper will provide sources for further reading

Topology Optimization in Structural and Continuum Mechanics George I. N. Rozvany, Tomasz Lewinski, 2013-09-20 The book covers new developments in structural topology optimization Basic features and limitations of Michell's truss theory its extension to a broader class of support conditions generalizations of truss topology optimization and Michell continua are reviewed For elastic bodies the layout

problems in linear elasticity are discussed and the method of relaxation by homogenization is outlined The classical problem of free material design is shown to be reducible to a locking material problem even in the multiload case For structures subjected to dynamic loads it is explained how they can be designed so that the structural eigenfrequencies of vibration are as far away as possible from a prescribed external excitation frequency or a band of excitation frequencies in order to avoid resonance phenomena with high vibration and noise levels For diffusive and convective transport processes and multiphysics problems applications of the density method are discussed In order to take uncertainty in material parameters geometry and operating conditions into account techniques of reliability based design optimization are introduced and reviewed for their applicability to topology optimization

Engineering Vibroacoustic Analysis Stephen A. Hambric, Shung H. Sung, Donald J. Nefske, 2016-02-16 The book describes analytical methods based primarily on classical modal synthesis the Finite Element Method FEM Boundary Element Method BEM Statistical Energy Analysis SEA Energy Finite Element Analysis EFEA Hybrid Methods FEM SEA and Transfer Path Analysis and Wave Based Methods The book also includes procedures for designing noise and vibration control treatments optimizing structures for reduced vibration and noise and estimating the uncertainties in analysis results Written by several well known authors each chapter includes theoretical formulations along with practical applications to actual structural acoustic systems Readers will learn how to use vibroacoustic analysis methods in product design and development how to perform transient frequency deterministic and random and statistical vibroacoustic analyses and how to choose appropriate structural and acoustic computational methods for their applications The book can be used as a general reference for practicing engineers or as a text for a technical short course or graduate course

Optimization of Structural and Mechanical Systems Jasbir S. Arora, 2007 This book provides a discussion of the general impact of WTO membership on both sides of the Taiwan Strait and addresses the political and economic impact on cross Strait relations of common membership The book begins with an introduction which analyzes the state of cross Strait economic and political relations on the eve of dual accession to the WTO and briefly introduces the chapters which follow The first chapter discusses the concessions made by both sides in their accession agreements and is followed by two chapters which describe the manner in which the Taiwan economy was reformed to achieve compliance as well as the specific restrictive trade regime that was put into place to manage mainland trade The next two chapters deal with the implications of that restrictive trade regime for the Taiwan economy in Asia and with the nature of the interactions between the two sides within the WTO The final four chapters of the volume examine the impact of membership on four sectors of the economy finance agriculture electronics and automobiles There is a post script which briefly covers developments since the chapters were completed

Proceedings of the ASME Noise Control and Acoustics Division , 2001 **Proceedings of the ASME Noise Control and Acoustics Division--2005** , 2005 *Proceedings of NOISE-CON ...* , 1997 **Proceedings of the ... International Modal Analysis Conference & Exhibit** , 1991 *Paper* , 1997 *Design and Control of Diesel and Natural Gas Engines*

for Industrial and Rail Transportation Applications American Society of Mechanical Engineers. Internal Combustion Engine Division, American Society of Mechanical Engineers. Internal Combustion Engine Division. Technical Conference, 2003

The British National Bibliography Arthur James Wells, 1999 **50th Anniversary of the Design Engineering Division**
American Society of Mechanical Engineers, Bahram Ravani, American Society of Mechanical Engineers. Design Engineering Division, 1995 **Chinese Journal of Acoustics** , 2003 **The Shock and Vibration Digest** , 1992 **Forthcoming Books** Rose Arny, 1998-04 **Winter Annual Meeting** American Society of Mechanical Engineers, Whitaker's Books in Print , 1998 **JSME International Journal** , 2004 **15th AIAA Aeroacoustics Conference: 93-4401 - 93-4450** , 1993

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