

Sound Control

David A. Bies,Colin H. Hansen

Active Noise Control Primer Scott D. Snyder, 2012-09-25 By providing all the basic knowledge needed to assess how useful active noise control will be for a given problem, this book assists in the designing, setting up, and tuning of an active noise-control system. Written for students who have no prior knowledge of acoustics, signal processing, or noise control but who do have a reasonable grasp of basic physics and mathematics, the text is short and descriptive, leaving all mathematical details and proofs concerning vibrations, signal processing and the like to more advanced texts or research monographs. The book can thus be used in independent study, in a classroom with laboratories, or in conjunction with a kit for experiment or demonstration. Topics covered include basic acoustics, human perception and sound, sound intensity and related concepts, fundamentals of passive noise-control strategies, basics of digital systems and adaptive controllers, and active noise control systems.

Active Control of Sound P. A. Nelson, S. J. Elliott, 1993 This book describes modern techniques for reducing the level of airborne noise through the introduction of sound radiated by additional secondary sources, bringing together the results of contemporary research in this area. It is the combination of the physical properties of sound fields and modern digital signal processing technology that has made the active control of sound a practical proposition in a number of important applications. The book covers both these aspects of the subject, initially at a fundamental level, and then in detail in later chapters. The structure of the book is such that it should be suitable for both those seeking a basic understanding of the subject and as a reference for researchers in the field. A key feature of the work is the unified presentation of material from the two disciplines of acoustics and signal processing.

Acoustic Echo and Noise Control Eberhard Hänsler, Gerhard Schmidt, 2005-02-04 Authors are well known and highly recognized by the acoustic echo and noise community. Presents a detailed description of practical methods to control echo and noise. Develops a statistical theory for optimal control parameters and presents practical estimation and approximation methods.

Engineering Noise Control David A. Bies, Colin H. Hansen, 2017-12-21 The practice of engineering noise control demands a solid understanding of the fundamentals of acoustics, the practical application of current noise control technology and the underlying theoretical concepts. This fully revised and updated fourth edition provides a comprehensive explanation of these key areas clearly, yet without oversimplification. Written by experts in their field, the practical focus echoes advances in the discipline, reflected in the fourth edition's new material, including: completely updated coverage of sound transmission loss, mufflers and exhaust stack directivity a new chapter on practical numerical acoustics thorough explanation of the latest instruments for measurements and analysis. Essential reading for advanced students or those already well versed in the art and science of noise control, this distinctive text can be used to solve real world problems encountered by noise and vibration consultants as well as engineers and occupational hygienists.

Lecture Notes on Acoustics and Noise Control Hejie Lin, Turgay Bengisu, Zissimos P. Mourelatos, 2022-01-03 This textbook provides a guide to the fundamental principles of acoustics in a straightforward manner using a solid foundation in mathematics and physics. It is designed for those who are new to acoustics and noise control, and includes all the necessary material for a comprehensive understanding of the topic. It is written in lecture-note style and can be easily adapted to an acoustics-related one semester course at the senior undergraduate or graduate level. The book also serves as a ready reference for the practicing engineer new to the application of acoustic principles arising in product design and fabrication.

Engineering Noise Control David A. Bies, Colin H. Hansen, Carl Q. Howard, Kristy L. Hansen, 2023-08-08 This classic and authoritative textbook contains material that is not over-simplified and can be used to solve real-world noise control engineering problems. *Engineering Noise Control*, 6th edition covers theoretical concepts, and practical application of current noise control technology. Topics extensively covered or revised from the 5th edition include: beating; addition and subtraction of noise levels; combining multi-path noise level reductions; hearing damage assessment and protection; speech intelligibility; noise weighting curves; instrumentation, including MEMS, IEPE and TEDS sensors; noise source types, including transportation noise and equipment noise estimations; outdoor sound propagation, including noise barriers, meteorological effects and sloping ground effects; sound in rooms, muffling devices, including 4-pole analysis, self noise and pressure drop calculations; sound transmission through single, double and triple partitions; vibration measurement and control, finite element analysis; boundary element methods; and statistical energy analysis. Discusses all aspects of industrial and environmental noise control. An ideal textbook for advanced undergraduate and graduate courses in noise control. An excellent reference text for acoustic consultants and engineers. Practical applications are used to demonstrate theoretical concepts. Includes material not available in other books. A wide range of example problems and solutions that are linked to noise control practice are available for download from www.causalsystems.com.

Acoustics and Noise Control R J Peters, 2013-11-12 *Acoustics and Noise Control* provides a detailed and comprehensive introduction to the principles and practice of acoustics and noise control. Since the last edition was published in 1996 there have been many changes and additions to standards, laws and regulations, codes of practice relating to noise, and in noise measurement techniques and noise control technology so this new edition has been fully revised and updated throughout. The book assumes no previous knowledge of the subject and requires only a basic knowledge of mathematics and physics. There are worked examples in the text to aid understanding and a range of experiments help students use complicated apparatus. Thoroughly revised to cover the latest changes in standards, codes of practice and legislation, this new edition covers much of the Institute of Acoustics Diploma syllabus and has an increased emphasis on the legal issues relating to noise control.

Noise and Noise Control Crocker, 2018-10-24 This book is written more for the practitioner than the casual reader. Although a high mathematical level is not needed, for much of the material some engineering knowledge is desirable. Noise control is not easy and there are no magic answers to problems. Careful study and patience are required to produce proficiency in the field of noise control.

Quieting: A Practical Guide to Noise Control Raymond D. Berendt, Edith L. R. Corliss, Morris Ojalvo, 2000-09 This guide offers practical solutions for ordinary noise problems that a person is likely to meet. The book describes the ways in which sounds are generated, travel to the listener, and affect his hearing and well-being. Recommendations are given for controlling noise at the source and along its path of travel, and for protecting the listener. This guide instructs the reader by way of Warning Signs on how to determine whether he is being subjected in his environment to prolonged noise exposures that may prove hazardous to his hearing. Remedies are given for noise problems that a person is likely to find in his home, at work and at school, while traveling, and

in the growth and development of his community. The remedies include noise prevention techniques and selection of quiet alternatives to existing noise sources. General principles for selecting quiet appliances are given. Ways of searching for the sources of noise and for determining the paths over which they travel to the listener are described. A detailed index is given for individual ways of looking for inherently quiet homes and travel accommodations are described. In a final chapter, there are suggestions for enlisting community help where large external sources of noise must be quieted, such as those arising from public utilities and public transportation.

Active Noise Control M. O. Tokhi, R. R. Leitch, 1992 In active noise control an artificially-generated secondary acoustic field is used to interfere destructively with the unwanted sound field. This book deals with the control engineering of generating this secondary field. This technique has uses in suppressing machinery noise in particular.

Noise Control Colin H. Hansen, 2018-09-03 Noise Control: From Concept to Application presents the basic principles of noise control and their practical application to real problems. Numerous examples are worked out in detail and are used to illustrate the concepts in the book. There are few derivations of equations, but reference is made to texts from which these are derived. An excellent learning tool for students and practitioners, this guide to noise control will enable readers to use their knowledge to solve a wide range of industrial noise control problems. Working from basic scientific principles, the author shows how an understanding of sound can be applied to real-world settings.

Understanding Active Noise Cancellation Colin N. Hansen, 2002-05-03 Understanding Active Noise Cancellation Provides a concise introduction to the fundamentals and applications of active control of vibration and sound for the non-expert. It is also a useful quick reference for the specialist engineer. The book emphasises the practical applications of technology, and complex control algorithms and structures are only discussed to the extent that they aid understanding. Extensive recommendations for further reading on the subject are provided, but the text will stand alone for those seeking an overview of the key issues: fundamentals, control systems, transducers, applications and possible future directions.

Industrial Noise Control and Acoustics Randall F. Barron, 2002-11-14 Compiling strategies from more than 30 years of experience, this book provides numerous case studies that illustrate the implementation of noise control applications, as well as solutions to common dilemmas encountered in noise reduction processes. It offers methods for predicting the noise generation level of common systems such as fans, motors, c

Simplified Design for Building Sound Control James Ambrose, Jeffrey E. Ollswang, 1995-05-01 Organized for self-paced study, this user-friendly book can easily be understood by designers with no engineering training. Provides excellent guidance concerning how design can be used to control noise, privacy and room acoustics within buildings. Contains a summary of the basic types of sound problems that occur in buildings.

Industrial Noise Control Bell, 2017-11-01 Illustrates the latest solutions to real problems occurring in industry, buildings, and communities. Second Edition offers many more 13 problem sets and end-of-chapter exercises as well as up-to-the-minute coverage of new topics.

Responsive Systems for Active Vibration Control A. Preumont, 2002-11-30 Structural vibrations have become the critical factor limiting the performance of many engineering systems, typical amplitudes ranging from meters to a few nanometers. Many acoustic nuisances in transportation systems and residential and office buildings are also related to structural vibrations. The active control of such vibrations involves nine orders of magnitude of vibration amplitude, which exerts a profound influence on the technology. Active vibration control is highly multidisciplinary, involving structural vibration, acoustics, signal processing, materials science, and actuator and sensor technology. Chapters 1-3 of this book provide a state-of-the-art introduction to active vibration control, active sound control, and active vibroacoustic control, respectively. Chapter 4 discusses actuator/sensor placement, Chapter 5 deals with robust control of vibrating structures, Chapter 6 discusses finite element modelling of piezoelectric continua and Chapter 7 addresses the latest trends in piezoelectric multiple-degree-of-freedom actuators/sensors. Chapters 8-12 deal with example applications, including semi-active joints, active isolation and health monitoring. Chapter 13 addresses MEMS technology, while Chapter 14 discusses the design of power amplifiers for piezoelectric actuators.

Active Noise Control Giora Rosenhouse, 2001 This book will give a physical insight into the modern field of active sound and vibration control. It will present the latest technology and achievements. The approach is generally design orientated and has a viewpoint different to other publications.

Fundamentals of Noise Control Engineering Albert Thumann, Richard Kendall Miller, 1990 Here is a comprehensive reference for engineers who wish to apply practical, proven noise control measures which are both cost effective & compatible with operational requirements. Topics include sound propagation basics, vibration analysis, noise measurement, survey procedures, noise control strategies including state-of-the-art active noise control techniques, & guidelines for developing an effective noise reduction program for any facility.

Engineering Noise Control David A. Bies, Colin Hansen, Carl Howard, 2017-12-01 This classic and authoritative student textbook contains information that is not over simplified and can be used to solve the real world problems encountered by noise and vibration consultants as well as the more straightforward ones handled by engineers and occupational hygienists in industry. The book covers the fundamentals of acoustics, theoretical concepts and practical application of current noise control technology. It aims to be as comprehensive as possible while still covering important concepts in sufficient detail to engender a deep understanding of the foundations upon which noise control technology is built. Topics which are extensively developed or overhauled from the fourth edition include sound propagation outdoors, amplitude modulation, hearing protection, frequency analysis, muffling devices (including 4-pole analysis and self noise), sound transmission through partitions, finite element analysis, statistical energy analysis and transportation noise. For those who are already well versed in the art and science of noise control, the book will provide an extremely useful reference. A wide range of example problems that are linked to noise control practice are available on www.causalsystems.com for free download.

Active Control of Noise and Vibration Colin Hansen, Scott Snyder, 1996-11-21 This major work is the first to treat the active control of both sound and vibration in a unified way. It outlines the fundamental concepts, explains how a reliable and stable system can be designed and implemented, and details the pitfalls. It covers sound in ducts, sound radiation, sound transmission into enclosures, structural vibration and isolation, electronic control system design, and sensors and actuators.

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