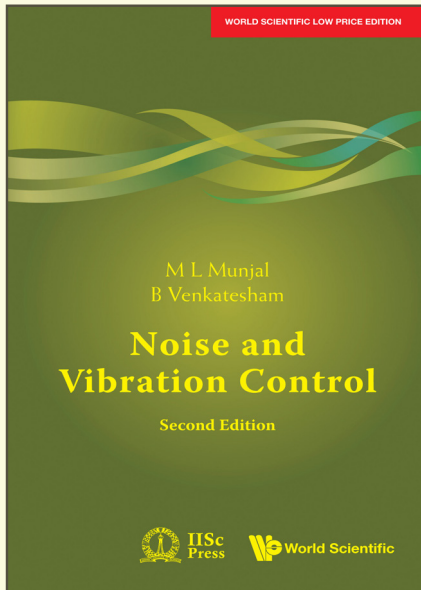


Noise and Vibration Control

2nd Edition



By **M L Munjal**

(Indian Institute of Science, India)

B Venkatesham

(Indian Institute of Technology Hyderabad, India)

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ABOUT THE BOOK

This unique compendium stresses on physical concepts and the applications to practical problems. The authors' decades of experience in teaching, research and industrial consultancy are reflected in the choice of the solved examples and unsolved problems.

The second edition has three additional chapters containing topics of vibration and acoustic sensors and instruments, finite element method (FEM), boundary element method (BEM) and statistical energy analysis (SEA), etc, thus enabling students to solve real-life problems in industrial and automotive noise control.

The useful reference text targets senior undergraduate mechanical and environmental engineering students as well as designers of industrial machinery and layouts. The book can readily be used for self-study by practicing designers and engineers. Mathematical derivations are avoided and illustrations, tables and empirical formulae are included for ready reference.

READERSHIP

Researchers, professionals, academics, and senior graduate students in mechanical engineering and environmental engineering.

CONTENTS

- Introduction to Acoustics
- Acoustic Measurements
- Vibration and Its Measurement
- Vibration Control
- Sound Transmission Through Multiple Media
- Acoustics of Rooms, Partitions, Enclosures and Barriers

- Mufflers and Silencers
- Noise Control Strategies
- Computational Acoustics

ABOUT THE AUTHORS

Dr M L Munjal is currently Professor (Emeritus), AICTE Distinguished Chair Professor and INSA Honorary Scientist in the Department of Mechanical Engineering at the Indian Institute of Science. During his five decades service on the faculty of IISc at Bangalore, he has guided 18 students for PhD, published over 200 papers in academic journals and presented about 150 papers in conferences in India and abroad. He set up a Facility for Research in Technical Acoustics, authored a John Wiley monograph on Acoustics of Ducts and Mufflers (two editions) as well as the original edition of the World Scientific textbook on Noise and Vibration Control, and carried out over 125 consultancy projects in the industrial and automotive noise control and designing for quietness. Dr Munjal has been Distinguished International Member of the Institute of Noise Control Engineering of USA, Honorary Fellow of the International Institute of Acoustics and Vibration, Fellow of the Indian National Science Academy and Indian National academy of Engineering, and Member of the European Academy of Sciences. Dr Munjal was Chairman of the National Committee for Noise Pollution Control during 1997–2015 and President of the Acoustical Society of India during 1999 and 2000. Dr Munjal has been a member of the Editorial Boards of the *International Journal of Acoustics and Vibration* and the *Indian Journal of Engineering and Material Sciences*.

Dr B Venkatesham is a Professor in the Department of Mechanical and Aerospace Engineering at IIT Hyderabad. He received his master's degree and PhD at the Indian Institute of Science (IISc), Bengaluru. He worked as a Lead Engineer for around ten years at the General Electric Global Research Centre before joining IIT Hyderabad in 2010.

His main research interests are Engineering Noise Control, Sound Quality, and System Engineering. He is a Life Fellow of the Acoustical Society of India. He is a consultant with various companies and government institutions, offering advice in planning, training, implementation, and evaluation of Noise, Vibration, and Harshness solutions. He has graduated 7 PhD students and is co-author of 40 peer reviewed Journal papers, 54 Conference papers, and 4 Patents. He conducts customized Industrial training programs in the area of Noise & Vibration.

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