



Noise and Vibration Control: 3 (IISc Lecture Notes Series)

M L Munjal

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Vibration and noise are two interrelated terms in the field of mechanical engineering. Vibration is caused by unbalanced inertial forces and moments whereas noise is the result of such vibrations. Noisy machines have always been a matter of concern. Lesser vibration ensures manufacturing to closer tolerances, lesser wear and tear, and longer fatigue life. Hence, a quieter machine is more cost-effective in the long run. It is now well understood that a quieter machine is in every way a better machine.

This book deals with such industrial and automotive noise and vibration, their measurement and control. This textbook stresses on physical concepts and the application thereof to practical problems. The author's four decades of experience in teaching, research and industrial consultancy is reflected in the choice of the solved examples and unsolved problems.

The book targets senior undergraduate students in mechanical engineering as well as designers of industrial machinery and layouts. It can readily be used for self-study by practicing designers and engineers.

Contents:

- Noise and Its Measurement
- Vibration and Its Measurement
- Vibration Control
- Acoustics of Rooms, Partitions, Enclosures and Barriers
- Mufflers and Silencers
- Noise Control Strategies

Readership: Senior undergraduate mechanical engineering students, designers of industrial machinery and layouts, practicing engineers.

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