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A Solid Introduction to Sound and Vibration: No Formal Background Needed

This Second Edition of Fundamentals of Sound and Vibration covers the physical, mathematical and technical foundations of sound and vibration at audio frequencies. It presents Acoustics, vibration, and the associated signal processing at a level suitable for graduate students or practicing engineers with having no prior formal training in the field.

The book is a coherent textbook based on the first semester of the master's program in Sound and Vibration Studies at the internationally acclaimed Institute of Sound and Vibration Research at the University of Southampton.

New in the Second Edition:

The latest edition has been extensively revised and updated, with a new introductory chapter and new chapters on the measurement of sound and vibration. Other chapters include fundamentals of acoustics, fundamentals of vibration, signal processing, noise control, human response to sound and human response to vibration; many of these have been substantially revised. Example problems and answers for self-study are included.

The revised text:

Offers a brief summary on the importance of sound and vibration

Considers the vibration of mechanical structures, ranging from simple SDOF models to continuous systems

Highlights the aspects of signal processing commonly used for data analysis

Addresses engineering noise control, and more

Fundamentals of Sound and Vibration, Second Edition provides you with broad coverage of

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sound, vibration and signal processing in a single volume, and serves as a reference for both graduate students and practicing engineers.