



# Applied Structural and Mechanical Vibrations: Theory and Methods, Second Edition

*Paolo L. Gatti*

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The second edition of **Applied Structural and Mechanical Vibrations: Theory and Methods** continues the first edition's dual focus on the mathematical theory and the practical aspects of engineering vibrations measurement and analysis. This book emphasises the physical concepts, brings together theory and practice, and includes a number of worked-out examples of varying difficulty and an extensive list of references.

What's New in the Second Edition:

- Adds new material on response spectra
- Includes revised chapters on modal analysis and on probability and statistics
- Introduces new material on stochastic processes and random vibrations

The book explores the theory and methods of engineering vibrations. By also addressing the measurement and analysis of vibrations in real-world applications, it provides and explains the fundamental concepts that form the common background of disciplines such as structural dynamics, mechanical, aerospace, automotive, earthquake, and civil engineering. **Applied Structural and Mechanical Vibrations: Theory and Methods** presents the material in order of increasing complexity. It introduces the simplest physical systems capable of vibratory motion in the fundamental chapters, and then moves on to a detailed study of the free and forced vibration response of more complex systems. It also explains some of the most important approximate methods and experimental techniques used to model and analyze these systems.

With respect to the first edition, all the material has been revised and updated, making it a superb reference for advanced students and professionals working in the field.

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