



Vibrations and Waves in Continuous Mechanical Systems

Peter Hagedorn, Anirvan DasGupta

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The subject of vibrations is of fundamental importance in engineering and technology. Discrete modelling is sufficient to understand the dynamics of many vibrating systems; however a large number of vibration phenomena are far more easily understood when modelled as continuous systems. The theory of vibrations in continuous systems is crucial to the understanding of engineering problems in areas as diverse as automotive brakes, overhead transmission lines, liquid filled tanks, ultrasonic testing or room acoustics.

Starting from an elementary level, *Vibrations and Waves in Continuous Mechanical Systems* helps develop a comprehensive understanding of the theory of these systems and the tools with which to analyse them, before progressing to more advanced topics.

- Presents dynamics and analysis techniques for a wide range of continuous systems including strings, bars, beams, membranes, plates, fluids and elastic bodies in one, two and three dimensions.
- Covers special topics such as the interaction of discrete and continuous systems, vibrations in translating media, and sound emission from vibrating surfaces, among others.
- Develops the reader's understanding by progressing from very simple results to more complex analysis without skipping the key steps in the derivations.
- Offers a number of new topics and exercises that form essential steppingstones to the present level of research in the field.
- Includes exercises at the end of the chapters based on both the academic and practical experience of the authors.

Vibrations and Waves in Continuous Mechanical Systems provides a first course on the vibrations of continuous systems that will be suitable for students of continuous system dynamics, at senior undergraduate and graduate levels, in mechanical, civil and aerospace engineering. It will also appeal to researchers developing theory and analysis within the field.

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