



# Engineering Vibrations

*William J. Bottega*

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A resource on vibration that imparts a deep physical as well as mathematical understanding is critical to students who first encounter the subject. Books with an overly mathematical focus can leave them without a grasp of the underlying physics and mechanics. Those that attempt to be reader-friendly often oversimplify the mathematics and mechanics, leaving them with a lack of depth and unprepared for advanced work and complex problems. With a carefully balanced approach, **Engineering Vibrations** provides a systematic and unified treatment of mechanical and structural vibrations along with rigorous yet approachable mathematical development.

This text advances abstract concepts from first principles. The author weaves together the physical interpretation and fundamental principles with applied problem solving and uses illustrative examples and case studies to reinforce the concepts, encourage effective interpretation of results, and assist in learning the techniques and procedures. Accompanied by more than 500 two- and three-dimensional drawings, the book offers tabulated results of case studies and a table of operators of various one-dimensional continua. It also contains problem-solving flowcharts for solving forced vibration problems for discrete and continuous systems. For each class of system, it explores the fundamental dynamics and studies free and forced vibrations under various conditions.

Building a solid understanding of the principles and bases for mechanical and structural vibration, **Engineering Vibrations** offers a comprehensive and accessible introduction to the subject of vibrations and progresses systematically to advanced topics.



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