



Modern Vibrations Primer

Peter M. Moretti

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Modern Vibrations Primer provides practicing mechanical engineers with guidance through the computer-based problem solving process. The book illustrates methods for reducing complex engineering problems to manageable, analytical models. It is the first vibrations guide written with a contemporary approach for integration with computers.

Ideal for self-study, each chapter contains a helpful exposition that emphasizes practical application and builds in complexity as it progresses. Chapters address discrete topics, creating an outstanding reference tool. The lecture-like format is easy to read. The primer first promotes a fundamental understanding, then advances further to problem solving, design prediction and trouble shooting. Outdated and theoretical material isn't covered, leaving room for modern applications such as autonomous oscillations, flow-induced vibrations, and parametric excitation

Until recently, some procedures, like arbitrarily-damped, multi-dimensional problems, were impractical. New methods have made them solvable, using PC-based matrix calculation and algebraic manipulation. Modern Vibrations Primer shows how to utilize these current resources by putting problems into standard mathematical forms, which can be worked out by any of a number of widely employed software programs. This book is necessary for any professional seeking to adapt their vibrations knowledge to a modern environment.

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