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The fundamentals in this book are great to learn how to go about deriving the equations and learn how these vibration problems were solved in the past. After about the halfway point the

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book becomes heavy with linear algebra theory, with some proofs missing, in order to arrive to a usable solution you can code in a math software program.

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Meirovitch is a world renowned researcher, author and professor in the area of mechanical vibrations. Of all his books, Fundamentals of Vibrations is the most suitable for undergraduates. Includes chapter on the Finite Element Method, an important computer analysis

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frequency is an important parameter in structural dynamics in some cases, can be obtained by manual calculation using simple formulas

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Lagrangian dynamics
as a tool for obtaining
the governing
equation(s) for a
system, the starting
point of vibration
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topic introduces
mathematical tools for
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example includes a section Exploring the Solution with MATLAB. This is intended to develop student's affinity to symbolic calculations, and to encourage curiosity-driven explorations. The third topic introduces the lumped-parameter modeling to convert simple engineering

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continuous systems.

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of interest to mechanical engineers, aerospace engineers, and engineering science and mechanics faculty. The main objective of the book is to present a mathematically rigorous approach to vibrations, one that not only permits efficient formulations and solutions to

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freedom (MDOF) systems, and continuous systems in depth; and includes numeric evaluation of modes and frequency of MDOF systems; direct integration methods for dynamic response of SDOF systems and MDOF systems; and component mode synthesis. Numerous

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illustrative examples help engineers apply the techniques and methods to

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