

## Principles Techniques Vibrations Leonard Meirovitch Pearson

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~~Leonard Meirovitch (born November 28, 1928), American ...~~

Meirovitch is a world-renowned researcher, author, and professor in the area of mechanical vibrations.

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Principles and Techniques of Vibrations, 1st edition. Unfortunately, this item is not available in your country. Thisbook will be 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 problems, but also enhances understanding of the physics of the problem.

Thisbook will be 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 problems, but also enhances understanding of the physics of the problem. The book takes a very broad view approach to the subject so that the similarity of dynamic characteristics of vibrating systems will be understood.

Encompassing formalism and structure in analytical dynamics, this graduate-level text discusses fundamentals of Newtonian and analytical mechanics, rigid body dynamics, problems in celestial mechanics and spacecraft dynamics, more. 1970 edition.

This book covers the basics of the hydrodynamics and vibration of structures subjected to environmental loads. It describes the interaction of hydrodynamics with the associated vibration of structures, giving simple explanations. Emphasis is placed on the applications of the theory to practical problems. Several case studies are provided to show how the theory outlined in the book is applied in the design of structures. Background material needed for understanding fluid-induced vibrations of structures is given to make the book reasonably self-sufficient. Examples are taken mainly from the novel structures that are of interest today, including ocean and offshore structures and components. Besides being a text for undergraduates, this book can serve as a handy reference for design engineers and consultants involved in the design of structures subjected to dynamics and vibration.

This book provides contemporary coverage of the primary concepts and techniques in vibration analysis. More elementary material has been added to the first four chapters of this second edition-making for an updated and expanded introduction to vibration analysis. The remaining eight chapters present material of increasing complexity, and problems are found at the end/of each chapter.

Fundamentals of Vibrations provides a comprehensive coverage of mechanical vibrations theory and applications. Suitable as a textbook for courses ranging from introductory to graduate level, it can also serve as a reference for practicing engineers. Written by a leading authority in the field, this volume features a clear and precise presentation of the material and is supported by an abundance of physical explanations, many worked-out examples, and numerous homework problems. The modern approach to vibrations emphasizes analytical and computational solutions that are enhanced by the use of MATLAB. The text covers single-degree-of-freedom systems, two-degree-of-freedom systems, elements of analytical dynamics, multi-degree-of-freedom systems, exact methods for distributed-parameter systems, approximate methods for distributed-parameter systems, including the finite element method, nonlinear oscillations, and random vibrations. Three appendices provide pertinent material from Fourier series, Laplace transformation, and linear algebra.

Purely mathematical treatment offers simple exposition of general theory of variational methods with special reference to the vibrating plate. No math beyond basic calculus. Includes exercises. 1957 edition.

An integrated presentation of dynamics, vibrations, and control theory, emphasizing the fundamentals of dynamics. The text's flexible structure makes it useful for integrated courses covering all three areas, individual courses in dynamics, and as a quick refresher for professionals. Includes examples, problems and applications.

Mechanical Vibrations, 6/e is ideal for undergraduate courses in Vibration Engineering. Retaining the style of its previous editions, this text presents the theory, computational aspects, and applications of vibrations in as simple a manner as possible. With an emphasis on computer techniques of analysis, it gives expanded explanations of the fundamentals, focusing on physical significance and interpretation that build upon students' previous experience. Each self-contained topic fully explains all concepts and presents the derivations with complete details. Numerous examples and problems illustrate principles and concepts.

Provides an introduction to the modeling, analysis, design, measurement and real-world applications of vibrations, with online interactive graphics.

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