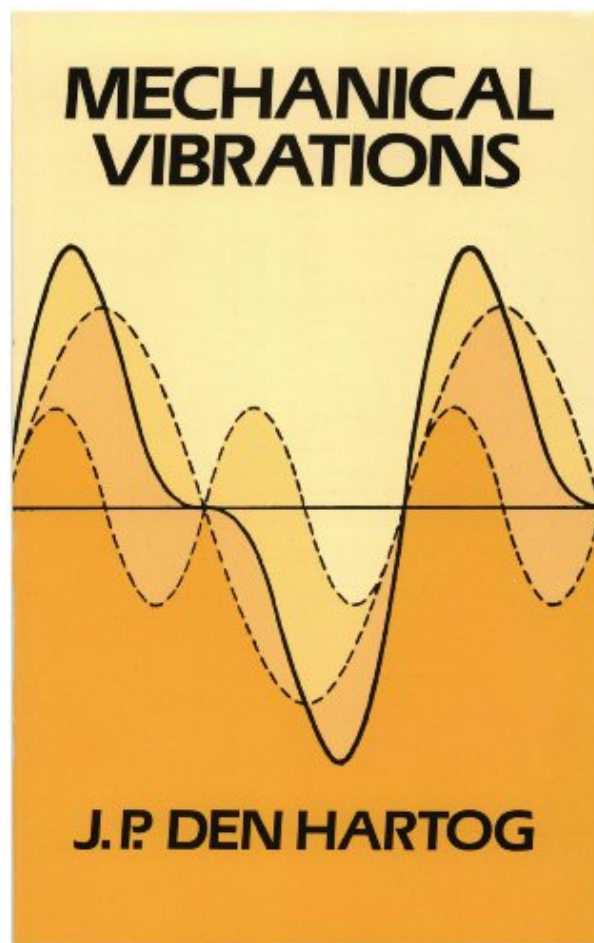


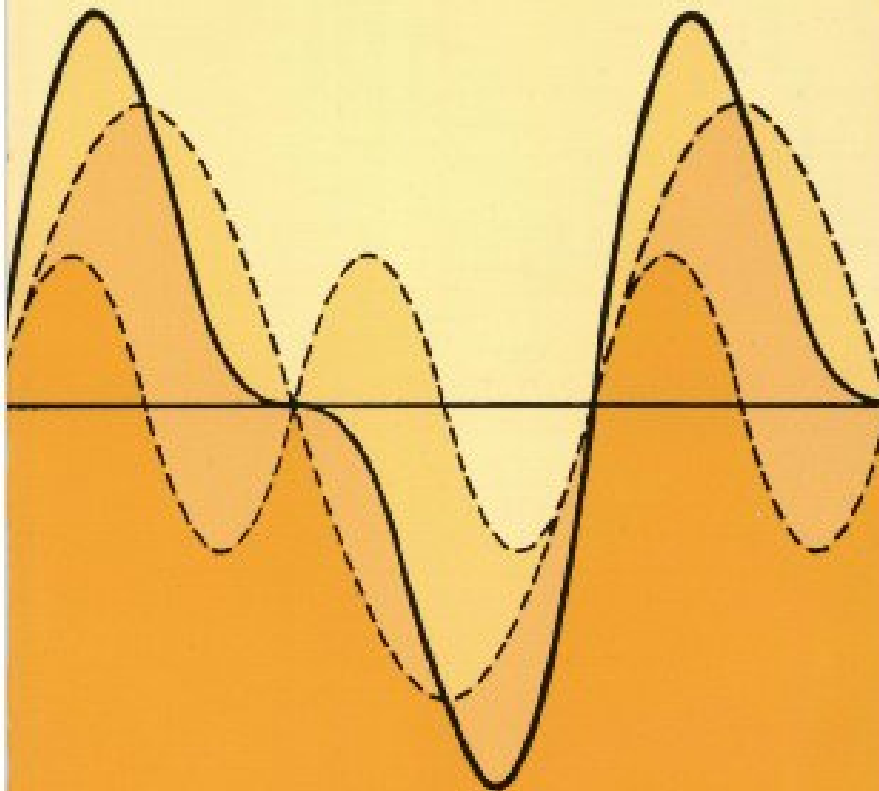
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About the Author

J. P. Den Hartog: The Reprint Engineer

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This classic textbook by J. P. Den Hartog, retired professor of mechanical engineering at MIT, reflects the author's unique ability to combine the scholarly insight of a distinguished scientist with the practical, problem-solving orientation of an experienced industrial engineer. Although mathematics plays a role in the subject, Den Hartog employs the simplest possible mathematical approaches. His lucid explanations of complex problems are presented in a direct style and supported by illustrative models. Numerous figures in the text enhance its value as a basic foundation in a field which Den Hartog calls "a necessary tool for almost every mechanical engineer." The author examines such topics as the kinematics of vibration (including harmonic motions and non-harmonic periodic motions), degrees of freedom, gyroscopic effects, relaxation oscillations, Rayleigh's method, natural frequencies of torsional vibration, Karman vortices, and systems with variable elasticity. Drawing on his experience as an engineer in private industry and in the U.S. Navy's Bureau of Ships, Den Hartog applies theory to practice, discussing the effects of vibrations on turbines, electrical machines, helicopter rotors and airplane wings, diesel engines and electrical transmission lines. As a special aid to classroom work or self-study, this practical text includes an extensive selection of 233 problems and answers that test the student's mastery of every section of the book. In addition, a highly useful Appendix contains "A Collection of Formulas" for determining the load per inch deflection of linear springs, the load per radian rotation of rotational springs, the natural frequencies of simple systems, the longitudinal and torsional vibration of uniform beams, the transverse or bending vibrations of uniform beams, and the vibrations of rings, membranes, and plates.

When *Mechanical Vibrations* was first published in 1934, it was a pioneering work in a field which had just been introduced in America's technical schools. In fact, the author wrote it to assist him in teaching the subject at Harvard. "During the life of the book," he says, "from 1934 on, the art and science of engineering has grown at an astonishing rate and the subject of vibration has expanded with it." Professor Den Hartog's constant revisions have kept his book at the forefront of this vital subject, as useful today as its earlier versions were to students of the past.

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Most helpful customer reviews

43 of 47 people found the following review helpful.

Reprint of a classic text from 1930s, still very applicable

By A Customer

This book is a reprint of a classic text, used at Harvard for many years. The reprint has lots of problems solved in the text and plenty of good problems for the reader to solve. Very application oriented problems covering rotating, and vibrating real world machinery. You can learn a lot from this text by reading and doing the problems, none of which require a much math beyond algebra and first year calculus. I do practical vibration analysis daily in my work and this and Schaum's outlines are what I would recommend if you have to teach others the basics of vibration for solving typical practical problems.

8 of 8 people found the following review helpful.

Theory applied to practical problems

By Amazon Customer

I purchased Hartog's book together with Meirovitch's Fundamentals of Vibrations and Kelly's Schaum's Mechanical vibrations. I must say that Hartog and Meirovitch complement each other beautifully whereas Kelly's book feels a little superfluous.

It is clear from the book that Hartog himself had extensive experience with real world vibration analysis. The theory is developed while analyzing a range of mechanical mechanisms and electrical circuits that frequently are important in real vibrating systems. Hartog's book is therefore useful as a reference, for instance for how the piston excites vibrations in the engine frame. Although quite old, the book does not feel dated. The type setting is old school with numerous small but clear figures.

Meirovitch's book is more modern in its presentation. Meirovitch prepares the reader for modern methods of vibration analysis such as frequency response analysis of continuous systems with the aid of the finite element method. Meirovitch also makes extensive use of matrix algebra and analytical mechanics. However, Meirovitch lacks in practical examples.

Overall I recommend the book, especially in combination with Meirovitch.

5 of 5 people found the following review helpful.

Great engineering text on mechanical vibrations

By calvinme

I've seen several books on mechanical vibrations over the years, and this is the best by far - and the cheapest. Hartog covers the spectrum of mechanical vibrations as they are used in engineering with great in-depth explanations, detailed illustrations that help you visualize what is being discussed, and solved problems throughout the book. He just doesn't jump into what can sometimes be involved mathematics either. He always takes the time to show the details of any mathematics used in solving problems, although I

recommend you understand calculus before starting out.

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