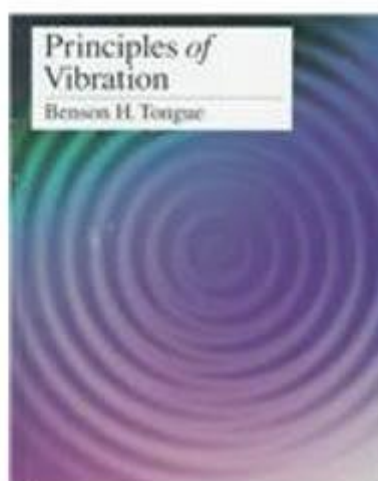
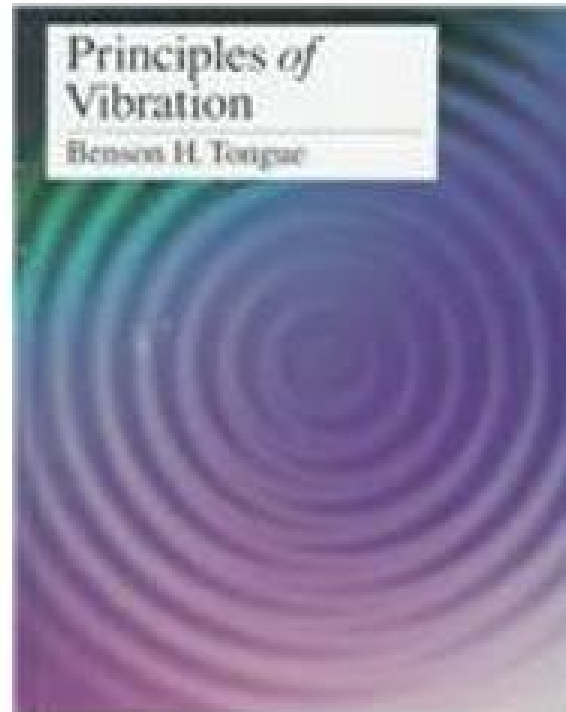


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Benson H. Tongue, Professor of Mechanical Engineering, University of California at Berkeley.

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With *Principles of Vibration*, Benson Tongue takes a refreshingly informal approach to the understanding and analysis of vibrations. The text strikes the right balance between detail and accessibility with an easily digestible style of writing yet no sacrifice of depth of analysis. The author provides a basic understanding of the main principles of vibrations, presenting the core ideas and theories that define the field. The volume follows the current trend of incorporating more modal analysis and linear algebra to solve vibrations problems, and utilizes MATLAB software. Starting with classical material--single degree of freedom systems--the text branches out into modern material, with an emphasis on multiple degree of freedom systems. Numerous problems challenge students to think and analyze outcomes of various techniques. The text features a chapter on "Seat of the Pants" engineering which brings together various approaches to answering or analyzing vibration problems, and applies them to all systems that have been previously discussed. Tongue's lucid step-by-step approach is in sharp contrast to other books in the field that overemphasize detail and complexity to the detriment of clarity.

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About the Author

Benson H. Tongue, Professor of Mechanical Engineering, University of California at Berkeley.

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Good introductory text

By I. Gurin

I used this book in Prof. Tongue's own vibrations class some years ago, and occasionally refer to it today. It reflects his unique lecture style: mathematically thorough and rigorous, yet engaging, patient (no student left behind), and often witty. The math can be difficult for engineers, but Tongue walks you through it so that it's clear. If you have to teach yourself vibrations and don't have the benefit of a teacher, this would be a good book.

This approach does have drawbacks. The expositions are lengthy. Key derivations can run for many pages, as Tongue explains all of the nuances, implications and pitfalls. This makes it difficult to use as a reference, although there is an appendix that just lists the key formulas. Systems with multiple degrees of freedom are not covered in as much detail as those with one, and even then there's a focus specifically on systems with two. If you're already passingly familiar with the subject, you're best served by a classic text such as Meirovitch.

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