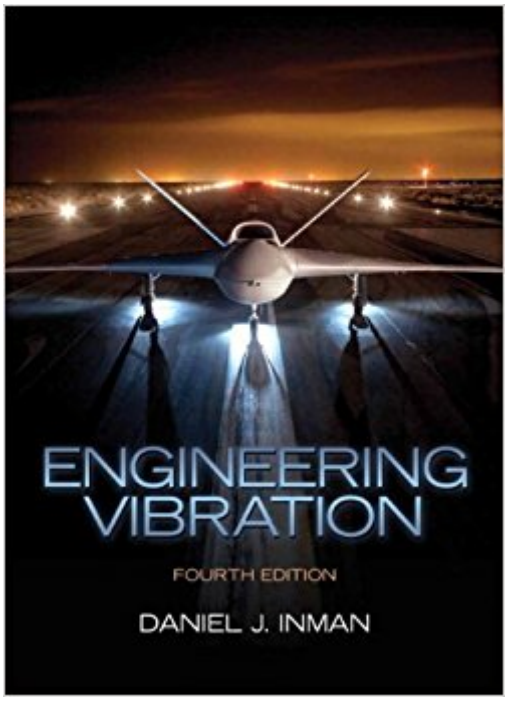
Engineering Vibration (4th Edition)



Synopsis

Intended for use in one/two-semester introductory courses in vibration for undergraduates in Mechanical Engineering, Civil Engineering, Aerospace Engineering and Mechanics. This text is also suitable for readers with an interest in Mechanical Engineering, Civil Engineering, Aerospace Engineering and Mechanics. Â Serving as both a text and reference manual, Engineering Vibration, 4e, connects traditional design-oriented topics, the introduction of modal analysis, and the use of MATLAB, Mathcad, or Mathematica. The author provides an unequaled combination of the study of conventional vibration with the use of vibration design, computation, analysis and testing in various engineering applications.

Book Information

Hardcover: 720 pages
Publisher: Pearson; 4 edition (March 17, 2013)
Language: English
ISBN-10: 0132871696
ISBN-13: 978-0132871693
Product Dimensions: 7.2 x 1.2 x 9.2 inches
Shipping Weight: 2.2 pounds (View shipping rates and policies)
Average Customer Review: 4.3 out of 5 stars 41 customer reviews
Best Sellers Rank: #39,001 in Books (See Top 100 in Books) #73 inÂ Books > Textbooks > Engineering > Mechanical Engineering #146 inÂ Books > Engineering & Transportation > Engineering > Mechanical

Customer Reviews

Inman’s book (4th Ed) presents the topics in a cogent manner. The use of software like Matlab, Mathcad, and Mathematica in the book is very good. The examples in the book are also very good. The only drawback to the book is the presence of a fair amount of typos. In a 4th edition one would have thought this would be under better control from a quality perspective. The book would have gotten 5 stars if this was not an issue.

Used this for a course in vibrations recently. I feel it is a great book for introducing vibrations. It obviously is not meant for graduate level and it does not get very theoretical with derivations and such. I will admit the course I took only covered the first 4 chapters, so I can’t really comment on the rest of the book, but those chapters include everything from basic spring/mass systems to different

forcing functions applied to systems and finally to multiple degrees of freedom (all of these with and without damping).What I liked about the book is the orderly way it presented the material. Most of the sections started with derivations of the equations for different systems and the solutions for them depending on the type of forcing function. At the end of each section there is usually a nice summary of what was done with all the equations that were derived as well as a few worked out examples. I especially liked the summary at the end of the modal analysis section (I think chapter 4) that tells you step-by-step how to do it, since I was a bit confused trying to follow the pages of derivations beforehand and put it all together.Overall, it is a great book for an undergraduate course or anyone needing to learn vibrations with no previous knowledge on the subject. This isn't a graduate level text or meant for anyone with more than a course or two of vibrations under their belt.

Great book! Definitively worth keeping for future reference. Great examples, and more specifically great software examples! (Matlab, etc.)Easy to read for a student with no previous vibrations knowledge

A very good book and surprisingly low price. Go for it!

Classic book - Read several times.

Book was in advertised condition.

Good

Good well written book. Used for Vibrations ME class.

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