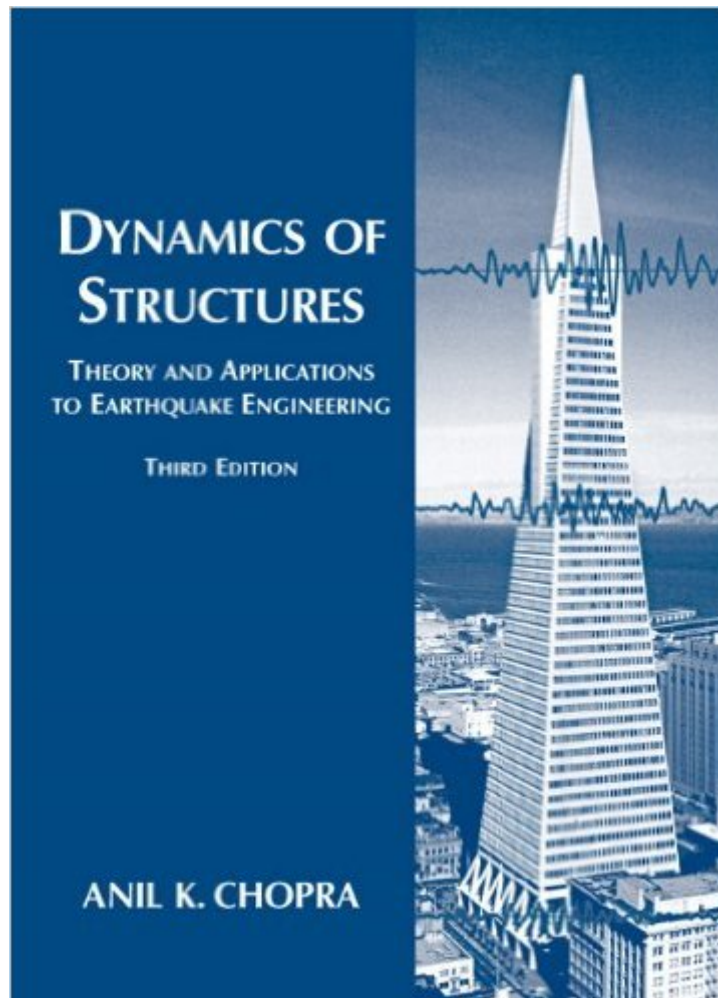


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Dynamics Of Structures (3rd Edition)



Synopsis

Â Designed for senior-level and graduate courses in Dynamics of Structures and Earthquake Engineering. The text includes many topics encompassing the theory of structural dynamics and the application of this theory regarding earthquake analysis, response, and design of structures. No prior knowledge of structural dynamics is assumed and the manner of presentation is sufficiently detailed and integrated, to make the book suitable for self-study by students and professional engineers.

Book Information

Hardcover: 912 pages

Publisher: Pearson; 3 edition (September 1, 2006)

Language: English

ISBN-10: 013156174X

ISBN-13: 978-0131561748

Product Dimensions: 7.3 x 1.4 x 9.6 inches

Shipping Weight: 3.2 pounds

Average Customer Review: 3.4 out of 5 starsÂ Â See all reviewsÂ (10 customer reviews)

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Customer Reviews

If you want to learn the THEORY of structural dynamics, this is not the best book to get. This book does not cover many of the derivations and mathematics that are behind structural dynamics; rather, it gives a brief presentation of the theory and goes directly into earthquake engineering applications. If you want to learn the core fundamentals and theory of structural dynamics, I would highly recommend J.L. Humar's textbook: "Dynamics of Structures." That being said, it IS an excellent textbook for earthquake engineering, and is probably most valuable for practicing structural engineers or for any earthquake engineering course.

Very good book for learning the theory of structural dynamics. You do need a background in differential equations and a little of matrix algebra to be able to derive some formulas but the book is very good in explaining the behavior of a system in question. However, I find the problems okay. I

would recommend the structural dynamics book by Tedesco for extra problems to solve and some useful tables and graphs.

Warning! This is the "INTERNATIONAL ECONOMY EDITION" which means it has a big warning on the front cover that says "Circulation of this edition outside the Indian subcontinent is UNAUTHORIZED". So, while cheap, I have no idea if it's actually a complete edition and likely has zero resale value. I'm not sure how this is even legal to sell this in the U.S. As for the content, I'm still reviewing but I was disappointed when this arrived and realized I'd been duped and wanted to warn others...

The organization and presentation is excellent. It is organized into two main parts: single degree of freedom systems(SDF) and multiple degree of freedom systems(MDF). An in-depth study of SDF systems comes first naturally since MDF systems can be viewed as solving multiple SDF systems. In terms of rigor, many proofs and derivations are provided. These are usually kept separate at the end of various sections within the chapters such that the reader would not get lost in the details. The problems are also wonderful in that they challenge the reader to think critically about the subject. In short, it is a great book for students exposed to dynamics for the first time.

I had the great opportunity of taking my dynamics class with Dr. Chopra. His book is amazing, and you will not find a practicing structural engineer without one of the editions of Dynamics of Structures in their bookshelf!

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