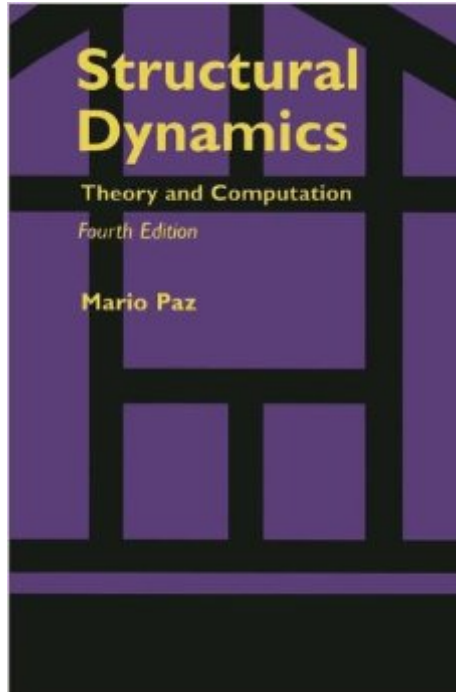


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# Structural Dynamics: Theory And Computation



## Synopsis

The book is interesting as well as scholarly and encourages the reader to continue rather than to put it down. The presentation and the many diagrams are excellent - Structural Engineer.

## Book Information

Hardcover: 825 pages

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Average Customer Review: 3.9 out of 5 stars [See all reviews](#) (12 customer reviews)

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## Customer Reviews

The material is well structured and the book is written in a clear and concise manner that's why I give five stars to the author. But I am really disappointed because I do believe that is unacceptable nowadays to allow for printing a book with such a poor quality of sketches/pictures. I think that most of them are scanned from previous material, and unfortunately it turned out that the scanning equipment was too sophisticated for author's assistants. So, I rate the publisher with just one star! - Please note that my comment refers to the fifth edition.

This book will take manic, uncontrollable dumps all over your dreams of learning structural dynamics. There very well may be a mistake on every single page. I've yet to test this out, because I couldn't make it past chapter 8 without losing my vision trying to see their figures that look like someone took a picture on a 2003 camera phone, imported it to ms paint, reduced the resolution by half, printed it out, scanned it back onto a computer, then print it out again at whatever place was dumb enough to decide to publish this book.

I used to read the Structural Dynamics (3rd ed.) from my university library. It was a great book with

all explanation very clear and good examples. Then I had the opportunity to buy the 5th edition. The text is a little different, but it is not a problem. The big problem is the figures that are horribles. It seems that all figures were scanned in low resolution.

(Re: 5th Edition) The principles of dynamics are timeless. In this regard, the book is excellent. Each chapter tackles a specific topic, develops it, and stays on topic. Dynamics can be difficult to process for a student. There are many issues in this edition which can be improved with a revision. 1. Chapter 24 discusses the UBC 97. That building code was replaced with IBC 2003... which was replaced with IBC 2006... then 2009... then IBC 2012. Four code changes behind is unforgivable in engineering. The methods of the UBC differ greatly from the IBC. This is a compound problem. However, chapter 25 covers the IBC 2000, so there's that. 2. The book introduces the student to SAP2000. Honestly, I never heard of this analysis software before this book. More well known are RISA and RAM Advanse. 3. Some problems have incorrect answers. Some equations have small errors. Some graphics look like copies of copies of copies. The variables are illegible due to the ink bleeding the letters into Rorschach blots. The binding on my edition was so dry, it broke after a week. In short: The material and content are better than adequate. But, a revision is needed.

This is one of the most comprehensive, easy to understand, book on structural dynamics in the market. Thoroughly recommended for the advanced undergraduate or postgraduate. It may be a bit pricey though I feel.

[A review of the 5th Edition 2006.] Paz gives a comprehensive explanation of his subject. Suitable to a reader at perhaps the second or third undergraduate year, and who has had some calculus and linear algebra. A substantial portion of the text involves solving linear systems of equations, to find eigenvalues and eigenvectors. And for this, the maths background is essential. What distinguishes the book from many older texts is the intensive use of computers to solve equations. This permits the tackling of harder problems, that are amenable only to numerical solutions. Also, if you already use some other numerical package, like Maple or Mathematica, then you can ignore the binaries on the enclosed CD, and just recode.

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