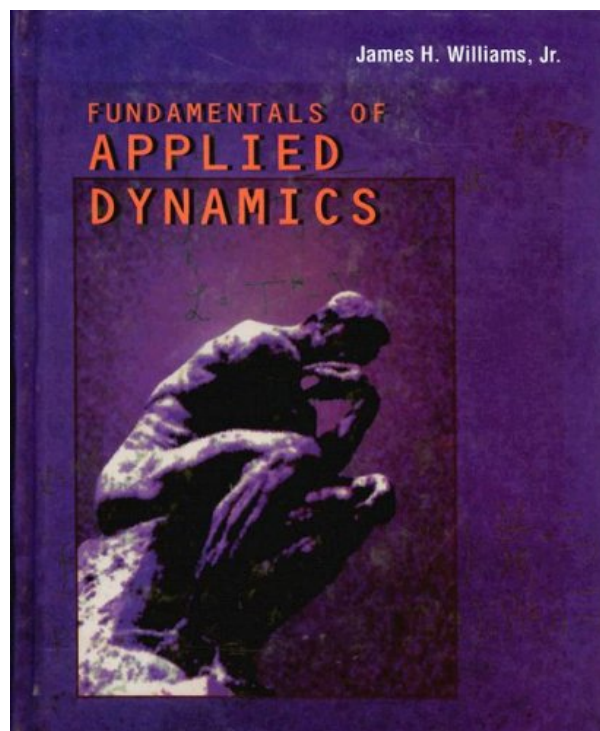
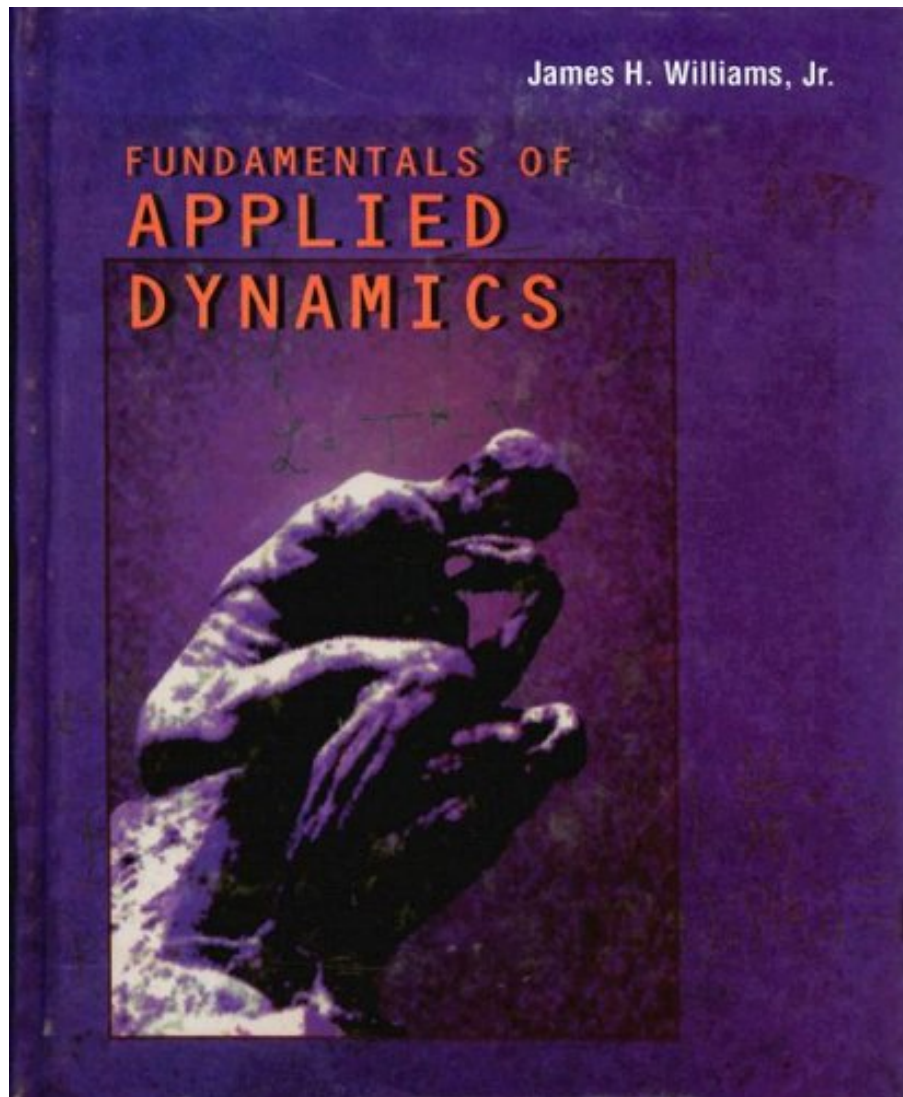


FUNDAMENTALS OF APPLIED DYNAMICS
REVISED PRINTING BY JAMES H.
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FUNDAMENTALS OF APPLIED DYNAMICS is a unique blend of both the modern and the historical, emphasizing dynamics with an analytical paradigm more commonly associated with the mechanics of solids. The distinction between momentum-based and energy-based approaches is clearly drawn, and bold techniques are presented. This text presents engineering mechanics as a unified field and, though emphasizing dynamics, integrates topics from courses such as design, strength of materials, state-space systems analysis, mechanical behavior of materials, and the humanities that have not traditionally been a part of the dynamics curriculum in order to show students the relevance of what they are learning.

About the Author

James H. Williams, Jr. is the School of Engineering Professor of Teaching Excellence, Charles F. Hopewell Faculty Fellow, Professor of Applied Mechanics, and one of MIT's most widely acclaimed and honored teachers. he has received many awards and published numerous papers and reports in conjunction with his teaching, international consulting, and research. As a consultant, he has participated in the design of an offshore oil platform, the retrofitting of a hydroelectric power station to prevent earthquake damage, the dynamic and stress analyses of catapults, power, and propulsion systems for aircraft carriers, the design of calendar rolls for papermaking, and the design and analysis of a number of aerospace and automotive structures.

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Excellent Book, but not for beginners

By StevenJens

This is a great book for dynamics!

There are a lot of useful examples for every chapter, and the author goes into detail on a lot of the mathematical derivations that is used frequently throughout the book.

A cautionary note though: This book is not for beginners!

If you do not have a strong physics background and math background, this book is not for you since the material might be too advance. Otherwise, if you're comfortable with classical mechanics as well as using symbolic algebra and calculus, then this dynamics book might be just for you.

0 of 0 people found the following review helpful.

Depends on your needs

By kairosguy

I took a Dynamics course this summer from a terrific professor. We used this book, and I found it very mixed. On the one hand, it does a much better job than many "intro" books at including advanced topics in it (Lagrangians, for instance), and in a way that can make a certain amount of sense. On the other, the writing oscillates (hah!) between moderately acceptable and opaque. Particularly in Ch. 8, much of the text requires you to understand the topics before the writing can be understood. On the other hand, also in Ch. 8, are some terrific short summary sections on single-degree of freedom oscillatory systems. So it's not all bad.

The arguably single worst thing about the text is the solutions manual. Calculus and algebra that take several pages for the student to do are skipped over with a sentence like "applying equation 6-15 to equation 6-23, we come up with..." the solution. Well, gee, I never would have thought of that, given that the problem says "Use equation 6-15 to show that..."

The second worst thing about it is the print quality. The first edition had two-color illustrations, but they had some errors in them. The errors are fixed in the 2nd edition, but the two-color printing was replaced with an absolutely terrible black halftone, where important information in some illustrations, esp. problems, is absolutely impossible to see. Several problems in ch. 3 were utterly unsolvable until I saw the versions in the 1st ed.

Bottom line is, in the hands of a skillful teacher, this book will not be an obstacle, and may be a modest help to learning some serious, advanced Dynamics at the introductory level. But may God have mercy on the souls of anyone trying to use this book to teach themselves, or to overcome a bad professor, for author Williams shall have none!

0 of 0 people found the following review helpful.

An odd reduction of Crandall's "Dynamics of Mechanical and Electromechanical Systems" with better pictures.

By Far-from-Equilibrium

This book is oddly situated in between an undergraduate engineering-oriented dynamics book (e.g. Hibbler, Merriam-Kraig), a typical undergraduate classical mechanics text from a physics curriculum (e.g. Marion & Thornton, Taylor), and a typical engineering vibrations book (e.g. Meirovitch). The book lacks treatment of 3-D motion of rigid bodies. Features an extensive treatment of variational formulations but lacks any discussion on symmetries or nonholonomic constraints (which makes it a weak physics treatment and even weaker engineering treatment). The treatment of Newtonian mechanics is too superficial and limited to supplant standard undergraduate engineering dynamics books. Perhaps portions on vibration could be

suitable for an undergraduate vibration class but that's probably the best fit. Just odd choice of topics and presentation. This book would be a good choice to introduce undergraduate engineers to variational principles, but not to the point of justifying purchasing the book.

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