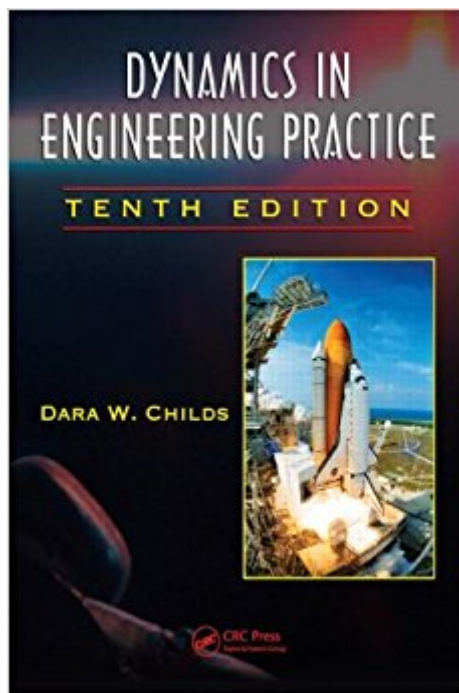




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# Dynamics In Engineering Practice, Tenth Edition (Crc: Computational Mechanics And Applied Analysis)



## Synopsis

Most undergraduate books for engineering dynamics exhibit a continuing disconnect from either the requirements of subsequent coursework or the practice of dynamics in an engineering career. Dynamics in Engineering Practice, Tenth Edition counters this dated viewpoint with a modern approach that is better suited to today's engineering study and practice. Written by a renowned teacher, researcher, and professional consultant in applied dynamics, this book represents a revolutionary approach to modern engineering dynamics analysis – one you can assimilate quickly and easily to get immediate results.

**Real-World Guidance to Reconnect Principles and Practice** The book begins by establishing the premise that most "dynamics engineers" are developing and analyzing models to predict motion, and that the subject of differential equations is the natural language for dynamics. From this starting point, the author immediately presents mechanical vibration examples to demonstrate applications of  $f=ma$  and work-energy principles, and he includes multiple "real-world" 1DOF and MDOF planar dynamics examples, which are completely worked out.

**Learn Exactly How an Engineer REALLY Solves Engineering Modeling and Analysis Problems** Dynamics describes the continuous evolution of motion, yet most textbooks approach the field as a series of snapshots, posing questions about variables at specific idealized positions or orientations. Advancing the idea that a practicing dynamics engineer's central role is to develop and analyze models, this book:

- Presents an ordered and logical set of procedures and alternatives for developing models and solutions for any planar dynamic or vibration example
- Uses repeated examples to demonstrate how models are analyzed via current computer approaches
- Includes the latest MATLAB® updates and other proven methods for modeling and analysis
- Helps readers ask the right questions to get the most out of problems and optimize modeling of general dynamic systems.

Based on the author's more than 40 years of experience teaching and developing courses in dynamics, this book teaches general skills where effectiveness can be demonstrated for a wide range of problems, rather than a collection of problem-specific "tricks." An essential resource at both the academic and professional levels, this text will be indispensable to both students and working engineers analyzing real dynamic systems.

## Book Information

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## Customer Reviews

Dara W. Childs is the Leland T. Jordan Chaired Professor in the Mechanical Engineering Department at Texas A&M University. Since 1984, he has directed the school's Turbomachinery Laboratory. He has a distinguished research career, including work on many research and consulting projects related to dynamics of rotating machinery. He predicted a costly rotordynamic instability problem with the High Pressure Fuel Turbopump of the Space Shuttle Main Engine prior to tests and was instrumental in resolving the problem.

This is the required text for A&M dynamics and vibrations, but it's not a great book... there are so many mistakes that I know of 2 erratas in existence so far. Even basic formulas such as radius of curvature are incorrect. Unless you are required to buy this text, don't waste your money. There must be a better dynamics book out there somewhere.

The professor should be ashamed of this book (although if you knew him you would know that he is just as unorganized and lazy as this book is). There are so many mistakes in this book that you will spend more time on HW than needed. The index is only one page long. The organization and formatting of the book makes it difficult to read (two columns on each page with figures that break up the reading). Uses terms made up by the professor (energy integral substitution) and expects the student to know what this is without explanation. There is plenty more to complain about but I have already wasted enough of my time on this &\*( book.

The seller advertised this book as "like new." The book arrived with multiple highlighted pages and

clear wear on the cover. When contacted, the seller acknowledged the book's less than pristine condition, but said the book fit "his" definition of like new. He maintained that position after I forwarded him 's definition of like new, namely suitable for gifting, perfect, etc. He offered me a 50% refund and then an 80% refund (final and best offer) if I would keep the book as is. I'm waiting to get my credit card statement to back charge the purchase. The dealer asked me not to buy any more books from him in the future. That's a safe bet.

Has a few mistakes, but overall this book helped me make an A in this class. It also helped me make 20 bucks!

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