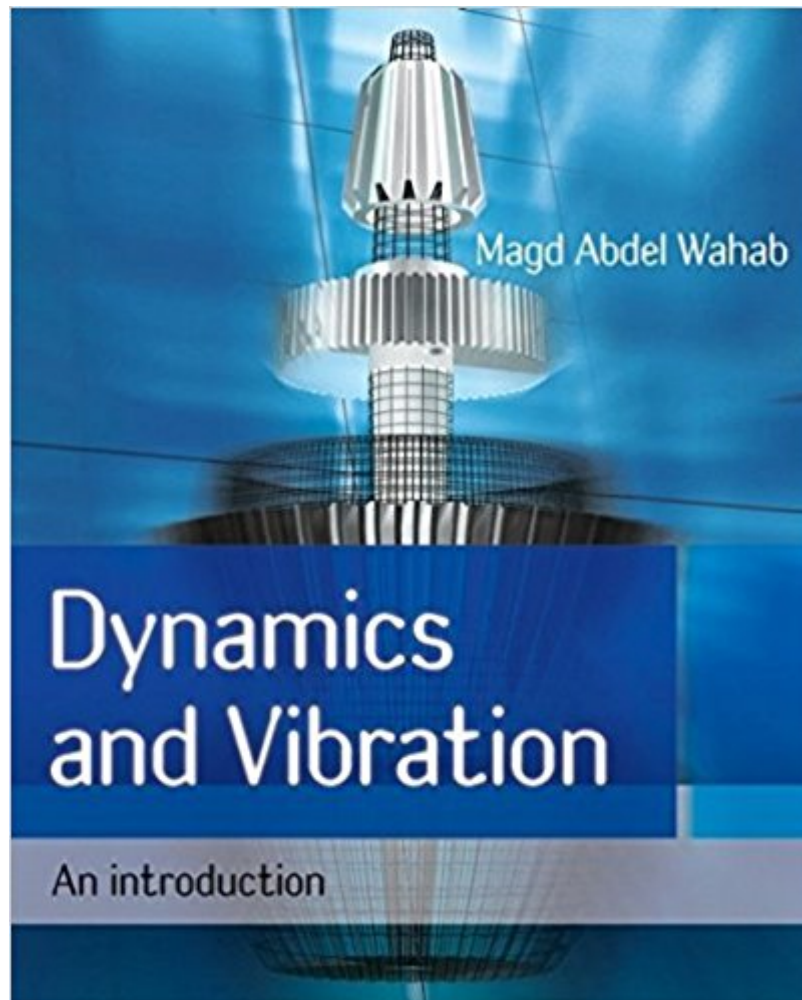




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Dynamics And Vibration: An Introduction



Synopsis

This book presents a new teaching methodology in Dynamics using E-learning, simulations and animation of mechanisms and mechanical vibrating systems. It covers Dynamics and Vibration modules that are taught at different undergraduate levels to the engineering students at Universities in the UK and worldwide. The content of the book is suitable for Level 1 Dynamics modules for Engineering students (Civil, Mechanical, Aerospace & Medical), as well as Level 2/3 Dynamics and Vibration Modules being taught to Mechanical, Aerospace & Medical Engineering students. In addition to the theory sections and the tutorial sheets provided after each chapter, software called DAMA, a "Dynamic Analysis for Mechanical Application"™, in which simulations of mechanisms and vibrating systems are implemented, is provided via a website. The DAMA software is packaged with everything it needs to work immediately. The simulations it contains are used to enhance students understanding of the motion and vibration of mechanical systems. The simulations include motion of a single cylinder engine, four-bar linkage mechanisms, gears and sliding/rotating rigid bars along with many others. The simulations are fully interactive so that any change in the input parameters is immediately reflected in the animation, output plots and output parameters.

Book Information

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Customer Reviews

So far as substance, it's a good book. It's mostly succinct and well written, but seems lacking compared to other books out there. The examples are good enough, but not top-notch, in my opinion. It wasn't outrageously expensive, which is always nice, but I wouldn't expect anything

outstanding out of this book. In a nutshell, it gets the job done.

Honestly, I don't like to review any book at their first edition because there are so many things they missed and/or need to improve. The book covers most of the topics in both dynamics and vibration, you might find that they are well-divided within the book itself. The theoretical content was great; however, the sample and problem content were poor. If you didn't do well in the first course of dynamics, you might find yourself struggling with this book. I'd recommend you learn the dynamics part from Hibbeler's Mechanics of Materials, and then learn the vibration part from this book. This book was used as 3000 level class for my undergraduate program. The fact that it is a soft-cover book makes it cheaper than any other engineering books with hard-cover. If you have to buy it for your class, then goodluck!; but, I'd not recommend this book if you are buying it for self-studying.

Great book it made my dynamics class more easier to learn

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