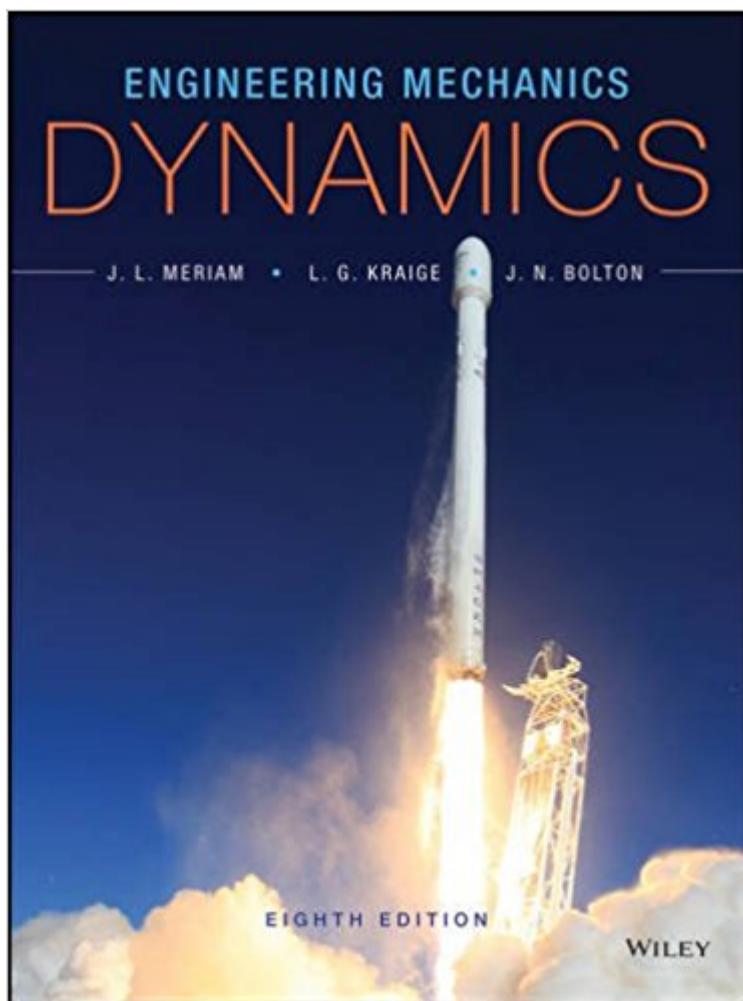


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# Engineering Mechanics: Dynamics



## Synopsis

Known for its accuracy, clarity, and dependability, Meriam, Kraige, and Bolton's *Engineering Mechanics: Dynamics* 8th Edition has provided a solid foundation of mechanics principles for more than 60 years. Now in its eighth edition, the text continues to help students develop their problem-solving skills with an extensive variety of engaging problems related to engineering design. In addition to new homework problems, the text includes a number of helpful sample problems. To help students build necessary visualization and problem-solving skills, the text strongly emphasizes drawing free-body diagrams- one of the most important skills needed to solve mechanics problems.

## Book Information

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## Customer Reviews

Excellent textbook. I also have their *Engineering Mechanics: Statics* and I love the way they have this series set up. Passages are relatively easy to read and have a few good sample problems for each section. I also love that all the answers to every problem are included. That way when you finish a problem you can have immediate feedback to whether you did the problem correctly or need to review your work for errors. Much better method for learning than waiting over a week to get homework back and then learning you made a mistake and no longer have the problem fresh in your mind. Because of the above fact I recommend this series for use in the classroom if any teaching faculty are reading. And let me clarify. It has the answers, not a solution so if students are

just making up work to match the answers you will be able to tell. Having the answer only helps aid the learning not help them cheat on their homeworkIf you are buying a textbook just as a reference this is good as well because once again you can see if you practice a problem whether or not you made a mistake and can learn from it before applying it to your work.

This book appears to have decent problems to solve + a little bit of fore-way into the doing the problems with text but there are no solutions to the problems at the back of the book, you have to rely on just answers and you have no way to understand problems you can't figure out. I couldn't even find a solution manual as a separate book, though there definitely should be the answers included online somewhere or inside the main book with purchase anyway.

Cover had scuffs as if it had been tossed around. Other than that it is a brand new, unopened book.

This product sent to me that UPS did not cover carefully then all the corners of the book were broken. I would like you need to check them before sent it. Thanks

Other reviewers have left their disgust of the book to a basic, if I may summarize, "it doesn't explain anything" carping. Now, of course, it should be understood that textbooks are a supplement to lecturing in a classroom setting, so, it should be without mentioning that learning material like dynamics would be rather difficult without an ample professor leading the way. With that said, I believe this text is amazing. It is simply one of the better texts I've gone through so far and not simply due to my advantage. My advantage being that my professor was L.G. Kraige, the co-author and future author of the 6th edition (the distinguished Dr. Merian passed away in 2000). Dr. Kraige never went far beyond the text or elaborated any further than what was provided. And rightfully so - if you are not able to pick up some of this material from what you read, it is best that you take a few steps back (maybe back to statics, maybe to physics, maybe to grade school) and start again. Dynamics is a difficult subject to move through without some form of official lecture and having someone offer their own tips and hints is a necessity for your individual success. The book is thorough and the appendices cover shades of older material that you may not remember fully - I know I had to review mass moments of inertia on several occasions and Appendix B was just enough to get me back on target. The problems for each article are very well formulated and clearly presented. As with many advanced texts, not all of the topics or questions are covered explicitly during the articles, but at this point in the physics/engineering game, it is a must for a student to

begin to intuitively solve problems based on the basics that are presented. Again, this book is wonderful, but needs to be complemented with an ample professor. I was very lucky to have Dr. Kraige as my professor and appreciate the text all the more.

While the text portions on the theory are mostly acceptable, there are two things that make this book very unhelpful. First, the example problems are not solved in terms of variables - numerical values are used from the beginning, which makes the example both hard to follow and less easily generalized to help the reader understand other problems. Second, the book provides solutions to the odd-numbered problems, but it was not uncommon for these solutions to be wrong (even the units were wrong!). This created a lot of frustration. A third minor complaint is that the book is not organized well - the chapters are far too broad (several are longer than 100 pages) and yet closely related material still sometimes appears in different chapters.

You'd better hope you've got a good professor for dynamics, because this book is absolutely no help. It gives proofs for most equations, but doesn't seem to think any amount of example problems are necessary. I have the bootleg copy of the solutions manual for this book and the author solves most of the problems with bizarre calculus that isn't discussed in the chapter at all. To top it off, the set (Statics and Dynamics) was \$180 at my college bookstore. Pool your money with your classmates, buy one copy of each, and xerox the problems. You will not miss anything.

I took to reading this book because I enjoyed the book on Statics by the same author. I was not disappointed, but I thought Dynamics was covered much better in Beer & Johnston.

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