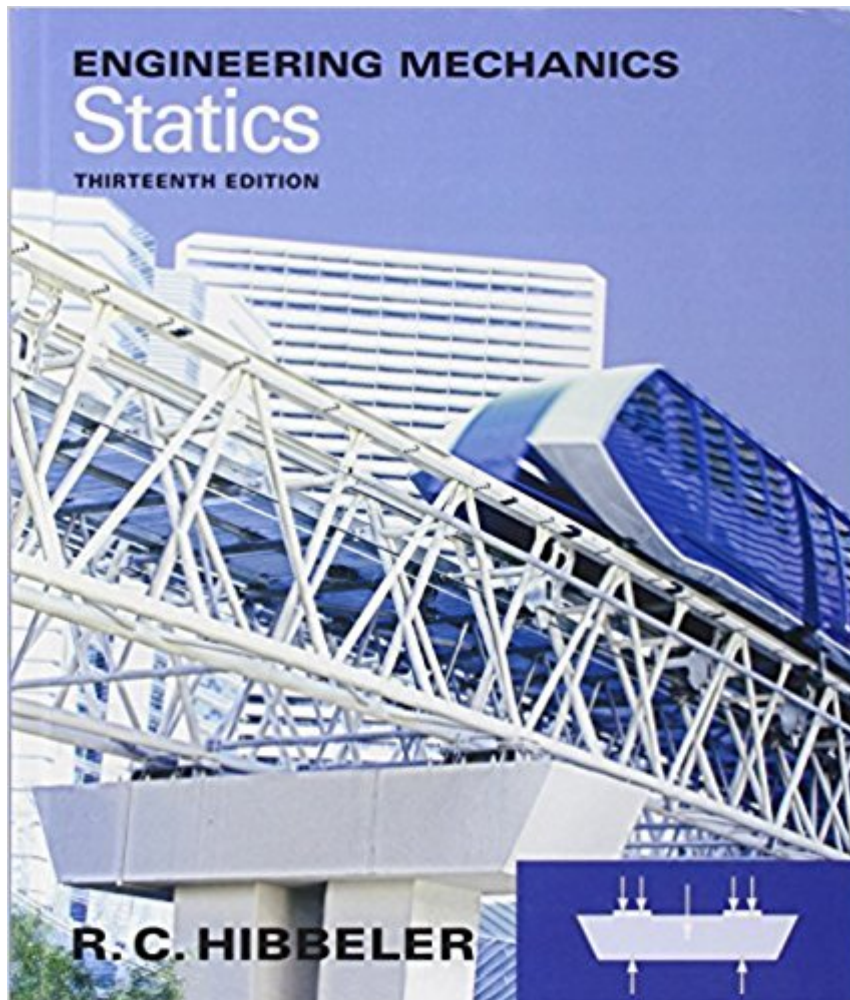




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Engineering Mechanics: Statics (13th Edition)



Synopsis

In his revision of Engineering Mechanics, R.C. Hibbeler empowers students to succeed in the whole learning experience. Hibbeler achieves this by calling on his everyday classroom experience and his knowledge of how students learn inside and outside of lecture. This text is ideal for civil and mechanical engineering professionals. [MasteringEngineering](#), the most technologically advanced online tutorial and homework system available, can be packaged with this edition.

Book Information

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Customer Reviews

R.C. Hibbeler graduated from the University of Illinois at Urbana with a BS in Civil Engineering (major in Structures) and an MS in Nuclear Engineering. He obtained his PhD in Theoretical and Applied Mechanics from Northwestern University. [Hibbeler's](#) professional experience includes postdoctoral work in reactor safety and analysis at Argonne National Laboratory, and structural and stress analysis work at Chicago Bridge and Iron, as well as Sargent and Lundy in Chicago. He has practiced engineering in Ohio, New York, and Louisiana. Hibbeler currently teaches both civil and mechanical engineering courses at the University of Louisiana, Lafayette. In the past he has taught at the University of Illinois at Urbana, Youngstown State University, Illinois Institute of Technology, and Union College.

I used this book for my Statics class in college, and honestly I wouldn't recommend it if you're trying to teach yourself or refresh your knowledge of statics. I am very happy that I only rented this rather

than buying it. There are a bunch of practice problems in the book to help you practice the concepts, but honestly I felt like the book relied on the problems to teach you successfully, rather than having the problems as a bonus to the teaching of concepts. Additionally, the problems are organized into two different categories, and then arranged so that they happen right after the explanation of a concept, rather than all together at the end of the chapter. I felt like this detracted from the learning experience and also made finding problems a mess of flipping through the book. Overall, I felt like the explanations of concepts in this book did not justify its cost. I wouldn't recommend it.

As a student, I found this book to be very helpful. Though Statics was not my best class, this book certainly made topics clear and concise.

Pros:

- Has A LOT of examples. They are very detailed and they explain everything thoroughly.
- Is not too "wordy"
- Meaning that it will not confuse you, it is very straight forward.
- Objectives are clear
- Contains a very concise summary at the end
- Contain step-by-step procedures for solving general problems
- Pictures and diagrams clearly drawn, labeled, and captioned. They are also very practical, perhaps the most practical I've seen.

Cons:

- The book lacks some theory, or it is overlooked because of the amount of examples.

Overall, I think it is a great book and I would definitely recommend this to professors who plan on teaching statics or are even interested in just learning the topic,

This is certainly not a perfect textbook, although I have yet to see one that can be characterized as that. It does however do a decent job of introducing/explaining the concepts, and does provide a lot of example problems. The examples pretty much allow you to work out all the "F" or fundamental problems in the book. And as you work through those you can figure out many (but not all) of the "regular" problems. Luckily the problem sets in the chapters are not full of just proofs, but there are a few. The main drawbacks are that the author sometimes assumes that you can follow the thought process and either poorly explains steps or omits steps. Sometimes the omitted steps are relatively easy to follow, and sometimes not so much. This is a problem though that plagues almost every math and physics textbook out there. If you get a good teacher he or she should be able to fill in some of those gaps. If not you may need to supplement the book. There are a couple non-textbook statics guides out there, and the creator of math tutor DVD has just started creating a statics series. So far however he only has one volume that pretty much just covers the introductory material.

Engineering Mechanics Statics Tutor - Volume 1

I did want to address the one star

review that accuses the author of creating multiple editions of the book and not changing anything. It is true that happens, but the authors have little control over that. The publishers are the ones who make that call, not the authors. It happens with every math and science related textbook. Realistically the concepts never change. Calculus and physics (which is basically all statics boils down to) have both been around for hundreds of years. The material does not change, yet new editions of all the books come out every few years. The publishing companies require new editions of the books to be released otherwise they will not publish the books. So the authors will change the order of the material a bit and reorder problems etc, and yes it is a total scam, but if you want to be angry blame the publishing companies.

This book is garbage. It seems to be written by a committee of non-engineers reading from some sort of "writing a textbook for dummies" book.

Concepts are poorly explained, and examples throughout the book have very few details, skipping nearly all steps in between setting up the problem and giving the final answer. That might be ok if you have a strong background in statics or physics already, but if not, I hope you have a great teacher or some other reference to learn from, because you're probably not going to learn much if you're relying solely on this textbook.

Pretty standard statics book and if it's required you no choice. However, if you have a choice look around for something else. I personally thought it was vague in parts and assumptions galore. I personally can't stand that so I'm sensitive to it. Many people in my class thought it was fine. Well, if you're wired that way more power to you. Not me. If I had a choice, I'd pick something else. The solution manual is even worse. Sure, it gives you answers numerically... but zero explanations.

It's al alright book. It's helped me out some, but not nearly as much as Khan Academy did. In class, I feel like I missed some core concept with each major topic discussed here, and being unable to figure that out has caused me to really not understand Statics in the least. I'll definitely have to take this class again, but I don't totally blame the book for that. Text books are hard to write, I understand, but asking for more clarity, simpler vocabulary to connect with a broader audience, and better step-by-step, detailed solutions to the examples would be very helpful. Otherwise, you're better off using Chegg

A little rougher than I expected but is serving its purpose

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