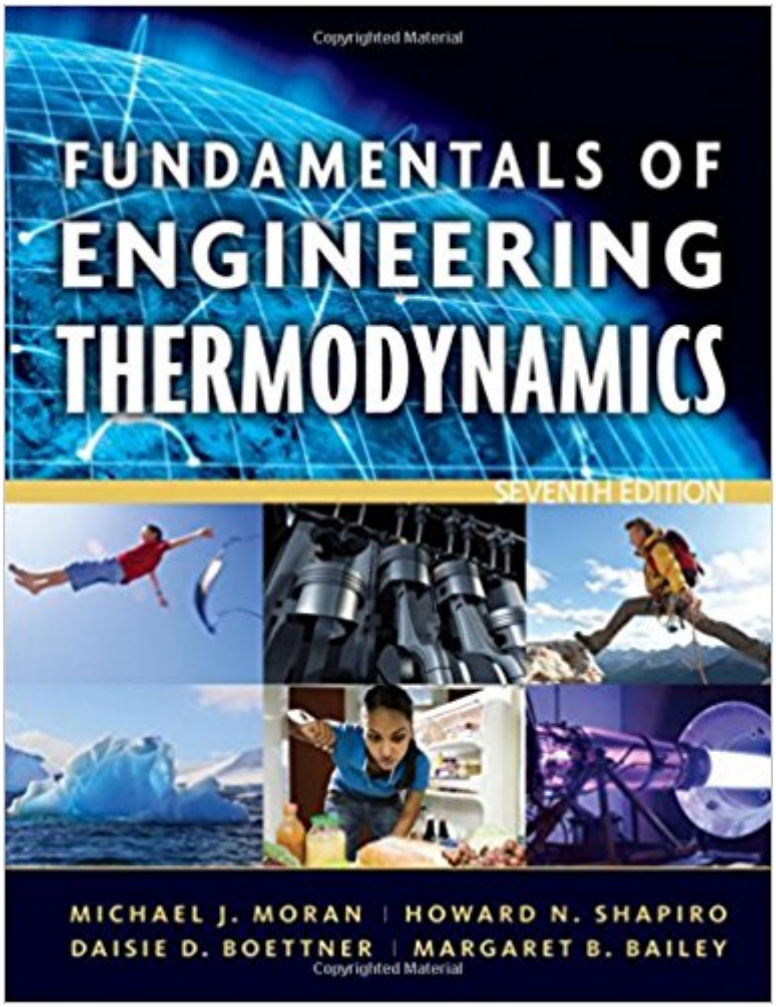
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Fundamentals Of Engineering Thermodynamics, 7th Edition



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Synopsis

This leadingÃ Â text in the field maintains its engaging, readable style while presenting a broader range of applications that motivate engineers to learn the core thermodynamics concepts. Two new coauthors help update the material and integrate engaging, new problems. Throughout the chapters, they focus on the relevance of thermodynamics to modern engineering problems. Many relevant engineering based situations are also presented to help engineers model and solve these problems.

Book Information

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Customer Reviews

This book is well written. I really enjoy the very thorough examples given through every chapter of the book, as they are easy to follow and understand. The homework problems are numerous and very clear in their instructions. This book has definitely helped my learning of the material as I follow along with my professor. Also, the book contains numerous tables and graphs in the back of the book which are very handy while studying the subject and are easy to follow and understand.

Although this book has much more information than we covered in my thermodynamics class, it is very thorough, and most chapters have well-explained examples. I'll keep this one for future reference!

I feel like I'm hunting for an equation with a specific number to get correct down to four decimal places or else the professor will give me crap. The solutions aren't very detailed.I got the kindle

version and the software frustrated me while the homework frustrated me more. Let’s see if a wealthy company full of bright minds can refine the software and get me a better cross between a book and a search engine.

Compared to the 7th edition, there isn’t much added content and the practice questions were all the same but jumbled. If I didn’t need to submit specific questions for homework assignments then I wouldn’t have bought the book.

Example problems in the book can take up several pages showing the majority of steps needed, and can be easily be applied to homework problems in the chapter. Easy read and understandable.

We had to purchase this book for a Thermodynamics 1 course I took. We only used the first 6 chapters in class, but I grew curious and started to read the other chapters.I will start by giving you the pros and cons of this book:PROS:* Clear layout* Tables in the rear of the book are organized and have a clean layout & use different colors to differentiate units (SI first then English units)* Mini examples during the reading to help you understand concepts* Section problems to use newly acquired skills* At the end of each chapter, there is a section that gives you the most important equations in that chapter* Front of the textbook has conversions by subtype (Force, Pressure, Energy, etc...) and in both units* The book offers problems in both SI and English Units* Aesthetically pleasing* It offers Thermodynamics as a science for different types of engineers (Biomed, Environ, etc...) thus aiding them see what it could be useful for & giving us traditional engineering majors a look at how to apply Thermodynamics outside of our realm of expertiseCONS:* The chapters can get long. Like 40-50+ pages long in some cases* Computer methods sometimes occur in the book between concepts. I think it should be reserved at the end of the chapter; not everyone uses those methods* No solutions at the end of the book or in the index* No companion solutions manual* I found that while the textbook reads well, it can sometimes gloss over important concepts so I used the Thermodynamics for Dummies book as a reference* Physically large and heavy (more akin to a tome than a standard textbook)* The person who mentioned it isn’t build durably is correct: Mine is starting to show moderate damage in the back cover near the spine.A traditional Thermodynamics class stops short of Exergy (Chapter 7).Chapter 1 is basically a review in Physics/Chemistry: conversions, units, etc...Chapter 2 offers insight into thermometers (types and uses) as well as barometers and their governing equationsChapter 3 begins the 1st Law of ThermodynamicsChapter 4 Begins to talk about non-steady state as well as

nozzles, turbines, etc...Chapter 5 starts entropyChapter 6 Irreversibilities generated internally in a system (i.e. more entropy)Chapter 7 (Not used in my class, but read it anyways) Exergy (it goes into using it for economic purposes)Overall, I would say this book is nice. It gives plenty of reason to use it and I will use it long into my career as a reference book. However, it is pretty obvious that it could benefit from a solutions manual or some answers in a special index. In addition, a companion manual would aid the reader and finally, the Dummies book also shows you how it could have been better streamlined.I understand Thermodynamics is a complicated course, but this book's verbosity can really bog down someone trying to read it and short of drilling through problems, there isn't a way to understand the concepts in-depth and as I said, sadly it has no solutions manual.Thank you for reading and good luck! :)

Be careful if you are using this book in the U.S. The end of chapter problems are NOT the same as the US version.

Keep in mind that this isn't my major but I needed this book for a required course....This book has a nice layout. Formulas are easy to find in text and examples are given throughout the chapters. It has a lot of tables on the back few pages (you need them for most problems) and they are given in both SI and English units. Each chapter has a lot of problems so you can practice and learn everything.But not everything is great. some of the problems are so long and complicated that it can be very difficult to solve with the given examples. Other times it just seems like it's a one step problem which can be easily over-thought and made more difficult. Sometimes the problems are solved by a computer system so you have no steps on how to solve. In order to fully and quickly learn from the problems, I suggest you try to work out the problems then either ask your professor/TA for the worked out solutions to check your work. Since most problems are worked out the same, if you know how to do a few you'll be able to complete the rest. This book has some printing issues, the ink they use (or the paper) is very strange. The main issue is that the ink smudges if you rest your arm over the text and the pages are very thin.Overall I would recommend this book as you do learn quite a bit from it and it will prepare you for future courses. Just be careful not to smudge any of the tables or you'll be screwed.

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