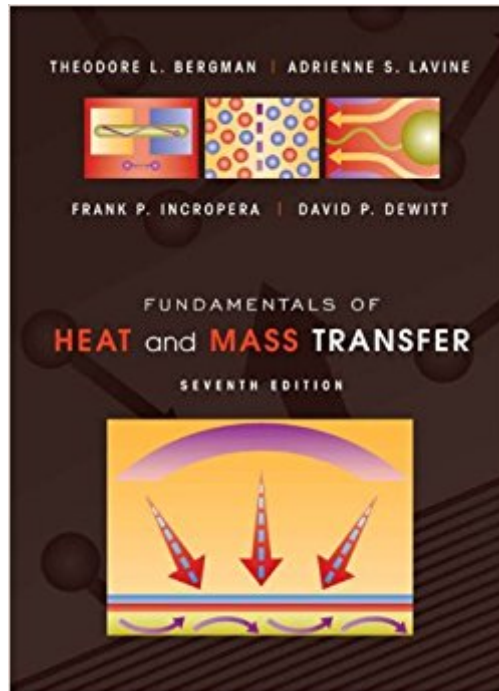




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# Fundamentals Of Heat And Mass Transfer, 7th Edition



## Synopsis

Introduction to Heat and Mass Transfer is the gold standard of heat transfer pedagogy for more than 30 years, with a commitment to continuous improvement by four authors having more than 150 years of combined experience in heat transfer education, research and practice. Using a rigorous and systematic problem-solving methodology pioneered by this text, it is abundantly filled with examples and problems that reveal the richness and beauty of the discipline. This edition maintains its foundation in the four central learning objectives for students and also makes heat and mass transfer more approachable with an additional emphasis on the fundamental concepts, as well as highlighting the relevance of those ideas with exciting applications to the most critical issues of today and the coming decades: energy and the environment. An updated version of Interactive Heat Transfer (IHT) software makes it even easier to efficiently and accurately solve problems.

## Book Information

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## Customer Reviews

The book does seem to have identical chapters, but the problems at the end of the chapters are not the same. This is a large problem because the reason I bought this copy is that I'm a broke college student. If the problems are not an important part for a potential buyer, the book is a great deal.

Probably one of the most well-regarded heat transfer text books, this was a phenomenal deal. If you are buying to use it as reference and don't need the latest version for class assignments, there's no reason not to buy the older revision. I knocked a star because some of the explanations are not straight forward as compared to other HT books. While it may not be as good as others for learning the work, the references and examples in this book are actually fairly well explained. The appendix is also well done.

I wouldn't let the other negative reviews of this book scare you away- this is the standard reference text for heat transfer courses across the US at the upper division undergraduate and early graduate levels of mechanical engineering. It's even referenced on the PE exam in NCEES solutions manuals for practice tests. This book may seem a bit complex at first if you've never had an introduction on heat transfer, but it's far from insurmountable like other texts. If you're looking for something to bridge the gap between very complex graduate texts on convection and heat transfer with phase change phenomena, this book covers the entry level concepts of those subjects. Personally, I wished it covered a bit more to help bridge that gap up to the existing advanced graduate level texts (e.g. Ghiaassian). Similarly, I thought the fluid mechanics discussions within the convection sections to be a little inaccessible if you've never had a fluids course before. For advanced problems, you may need to supplement this with a dedicated fluid mechanics text. Long story short: The standard-bearer when it comes to heat transfer, but mass transfer leaves a little to be desired. Don't expect much in the way of extensions to numerical analysis, either- this is core theory. Being printed in more than two colors wouldn't hurt, either :)

This book explains concepts fairly well but does not give equations in a helpful format. Equations and concepts are often buried in examples and not laid out neatly in tables or easily found. It worked ok for the heat transfer class I took but that was partly because I had a teacher guiding me through with lectures.

A good book. We used chapters on conduction, convection (natural, internal and external), radiation (basics and exchange) and phase change. Would be helpful to have more diagrams and maybe actual photos but as a text this presents information fairly clearly. Also more examples is never a bad idea. My only complaint is that the professor for my class had to use his own notes to go over duct and fan laws. A book on HEAT TRANSFER should at least briefly mention fan laws.

For an introductory Heat and Mass Transfer course this book is very thorough (both verbally and mathematically) in explaining every concept and equation you need to know about. However, with that being said if you want to keep track of the important information in each chapter I highly recommend that you do quite a bit of underlining, highlighting, and note-taking while you read this book as it will help to keep organized and when you need to reference a chapter you will not have to scan through all of the less important information. The chapters also give detailed example problems to look at and use as reference when doing any problems from the end of the chapters.

This is a very effective textbook. I think this is one of the most used textbooks in heat transfer courses, and there is a reason for that. Everything you need to know, both conceptually and mathematically, is laid out very cleanly and in logical order. It is easy to follow for someone with little to no background.

The textbook was exactly as described and as for the content itself, I would recommend this textbook for anyone over the Cengel one. It is written in clear English and is better for those who want to understand the subject on a much deeper level than Cengel's take, while remaining accessible to the average engineering student. I highly recommend this as a student.

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