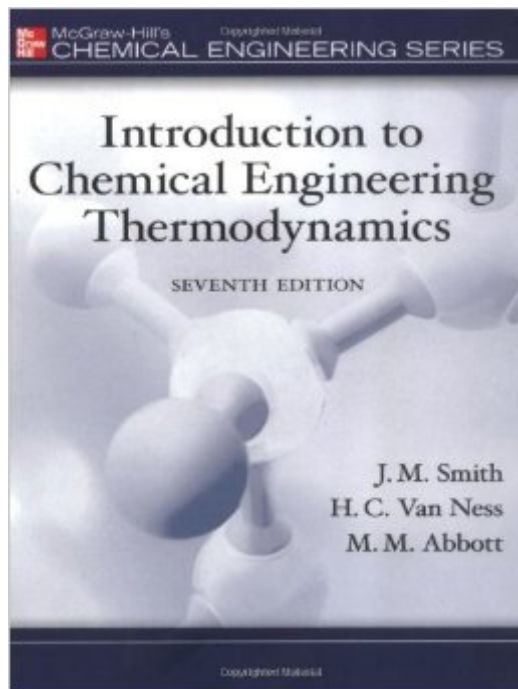


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# Introduction To Chemical Engineering Thermodynamics (The Mcgraw-Hill Chemical Engineering Series)



## Synopsis

Introduction to Chemical Engineering Thermodynamics, 7/e, presents comprehensive coverage of the subject of thermodynamics from a chemical engineering viewpoint. The text provides a thorough exposition of the principles of thermodynamics and details their application to chemical processes. The chapters are written in a clear, logically organized manner, and contain an abundance of realistic problems, examples, and illustrations to help students understand complex concepts. New ideas, terms, and symbols constantly challenge the readers to think and encourage them to apply this fundamental body of knowledge to the solution of practical problems. The comprehensive nature of this book makes it a useful reference both in graduate courses and for professional practice. The seventh edition continues to be an excellent tool for teaching the subject of chemical engineering thermodynamics to undergraduate students.

## Book Information

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## Customer Reviews

I understand that this topic requires a lot of explanation. This textbook although verbose didn't cover much ground after introducing the topic. Often you will have a good explanation and example and then as the problem gets more difficult steps begin to be skipped by the author making it difficult to actually learn how to master the complicated questions given by your instructor. I feel that this book needs a substantial amount of work. It may have a lot of good information but lacks the ability to convey it to the student.

...but you were probably assigned this for class instead or as well, since Smith, Van Ness, and

Abbott's text does cover more material than Felder and Rousseau (Fugacity, vapor-liquid equilibrium, improved gas laws/correlations, et cetera). The tables in this book are pretty good, there's a lot of information there. The main problems with this book are organization and clarity. It feels like this book was written assuming you start reading at the front towards the back, and remember EVERYTHING covered. It's a little frustrating spending 20+ minutes trying to track down the relevant information needed to frame your equations. The Peng-Robinson equation(s) are scattered over a whole chapter, for a mild example. The information is there, but finding the relevant parts while weeding out the rest without getting confused is a challenge.

This book is really hit or miss. some of the chapters are really solid and good with their explanations but others are just complete crap and almost indecipherable with the huge amount of theoretical proofs thrown in. It's not the best book out there for learning thermo. UC boulder's learncheme page has better resources.

As far as text books go, this one is not bad. It's decently well written and put together. There are a lot of graphs and diagrams to explain the material. There are not as many example problems as there need to be, but the questions at the end of the chapter are very straightforward. Not a very extensive reference section either.

While this book covers a lot of material relevant to thermodynamics, it does so in a confusing manner. The text is hard to read, equations and variables are not explained well, and the example problems in the text are horrible and leave much unexplained.

I hated this book. My teacher sucked. So I relied on the book and that failed me miserably. The book itself was in okay condition. There were some helpful comments in it. That's why I like used books.

This is a solid thermo textbook. Goes over concepts and theories fairly well. There are plenty of worked out examples throughout the chapters and appendixes so you know what you're doing. The authors explain everything in a clear and cohesive manner. Somethings are overwhelming, but it is thermodynamics. Plenty of appendixes for steam tables, interpolation, unit conversions, and virial equation constants, etc. I suggest you get the Schaum's outline as a good reference too.

This book explains the basics of thermodynamics very well. However, when it comes to conceptual things like fugacity and bubble point, i feel that the book does a poor job.

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