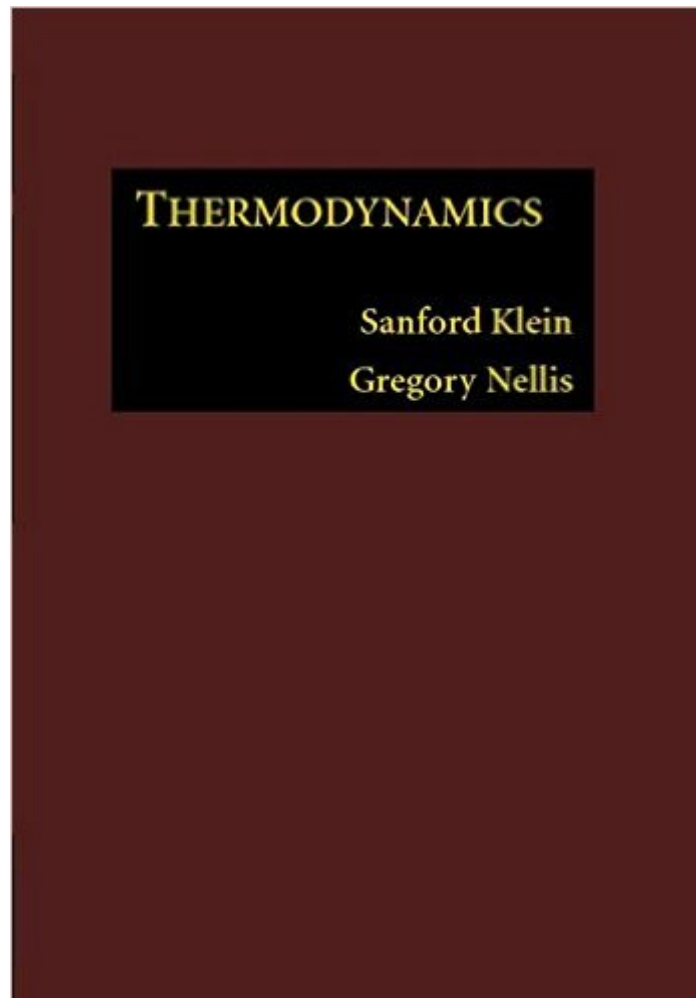


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# Thermodynamics



## Synopsis

This book differs from other thermodynamics texts in its objective which is to provide engineers with the concepts, tools, and experience needed to solve practical real-world energy problems. The presentation integrates computer tools (e.g., EES) with thermodynamic concepts to allow engineering students and practicing engineers to solve problems they would otherwise not be able to solve. The use of examples, solved and explained in detail, and supported with property diagrams that are drawn to scale, is ubiquitous in this textbook. The examples are not trivial, drill problems, but rather complex and timely real world problems that are of interest by themselves. As with the presentation, the solutions to these examples are complete and do not skip steps. Similarly the book includes numerous end of chapter problems, both typeset and online. Most of these problems are more detailed than those found in other thermodynamics textbooks. The supplements include complete solutions to all exercises, software downloads, and additional content on selected topics. These are available at the book web site [www.cambridge.org/KleinandNellis](http://www.cambridge.org/KleinandNellis)

## Book Information

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## Customer Reviews

This was a great text for me, however I also had the added benefit of having Professor Sanford Klein as my instructor for Thermodynamics. The text focuses HEAVILY on the use of a computer software called Engineering Equation Solver (EES) which Klein developed. Now, if you know how to properly use EES, it is a fantastic tool and the book is incredible. On the other hand, if your professor isn't very knowledgeable in the software, I could easily foresee you having a ton of issues with the text. I wouldn't recommend this book as a general thermodynamics reference for any

engineer, but if you plan to use EES on a regular basis, this text is a must have in your arsenal. TL;DR: If you plan to use EES, this book is perfect. If you plan to use it simply as a thermodynamics reference, I would suggest looking elsewhere.

I took the Thermodynamics class that Mr. Klein taught at UW-Madison. This is the first edition of the book and also it was the first time he was using it for a class. Overall the book has a practical solved example problems, all of which are solved in EES, which is great. The downside is that there aren't enough examples. The problems you would like to solve/learn how to do are at the end of the chapters and these are neither solved nor have a final answer written under them. I wouldn't recommend this book if you were trying to learn the material for the first time, but if you did want learn extensively about the functionality of EES (which the author created) this is a good book. If there was a solution manual out there (which there isn't, and is available only to instructors) I would say this is a great book. In fact, I'm looking for a good thermodynamics textbook containing EES problems (and the solutions!) right now.

Clear Explanations, good examples and lots of practice questions for different degrees of knowledge. It's an excellent book to have for anyone interested in thermodynamics and energy systems

This book is essential to any engineering student or practicing engineer. It contains very well thought-through examples from experienced educators. It highlights the essential from the theoretical information in major engineering concepts in a unique way.

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