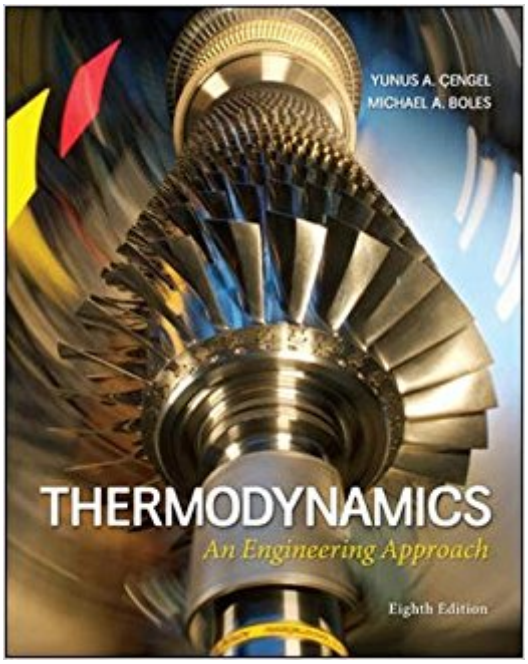
Thermodynamics: An Engineering Approach (Mechanical Engineering)



Synopsis

Thermodynamics, An Engineering Approach, eighth edition, covers the basic principles of thermodynamics while presenting a wealth of real-world engineering examples so students get a feel for how thermodynamics is applied in engineering practice. This text helps students develop an intuitive understanding by emphasizing the physics and physical arguments. Cengel and Boles explore the various facets of thermodynamics through careful explanations of concepts and use of numerous practical examples and figures, having students develop necessary skills to bridge the gap between knowledge and the confidence to properly apply their knowledge.

Book Information

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Customer Reviews

New Page 1 Michael A. Boles is Associate Professor of Mechanical and Aerospace Engineering at North Carolina State University (NCSU), where he earned his Ph.D. in mechanical engineering and is an Alumni Distinguished Professor. Dr. Boles has received numerous awards and citations for excellence as an engineering educator. He is a past recipient of the SAE Ralph R. Teetor Education Award and has been twice elected to the NCSU Academy of Outstanding Teachers. The NCSU ASME student section has consistently recognized him as the outstanding teacher of the year and the faculty member having the most impact on mechanical engineering students. Ã Â Ã Â Ã Â Ã Â Ã Â Ã Â Ã Â Ã Â Ã Â Ã Â Dr. Boles specializes in heat transfer and has been involved in the analytical and numerical solution of phase change and drying of porous media. He is a member of the American Society of Mechanical Engineers, the American Society for

Engineering Education, and Sigma Xi. Dr. Boles received the ASEE Meriam/Wiley Distinguished Author Award in 1992 for excellence in authorship. Yunus A. Cengel is Professor Emeritus of Mechanical Engineering at the University of Nevada, Reno. He received his B.S. in Mechanical Engineering from Istanbul Technical University and his M.S. and Ph.D. in Mechanical Engineering from North Carolina State University. His areas of interest are renewable energy, energy efficiency, energy policies, heat transfer enhancement, and engineering education. He served as the Director of the Industrial Assessment Center (IAC) at the University of Nevada, Reno, from 1996 to 2000. He has led teams of engineering students to numerous manufacturing facilities in Northern Nevada and California to perform industrial assessments, and has prepared energy conservation, waste minimization, and productivity enhancement reports for them. He has also served as an advisor for various government organizations and corporations. Dr. Cengel is also the author or coauthor of the widely adopted textbooks Fundamentals of Thermal-Fluid Sciences, Heat and Mass Transfer: Fundamentals and Applications, and Introduction to Thermodynamics, all published by McGraw-Hill Education. Some of his textbooks have been translated into Chinese, Japanese, Korean, Thai, Spanish, Portuguese, Turkish, Italian, Greek, and French. Dr. Cengel is the recipient of several outstanding teacher awards, and he has received the ASEE Meriam/Wiley Distinguished Author Award for excellence in authorship in 1992 and again in 2000. Dr. Cengel is a registered Professional Engineer in the State of Nevada, and is a member of the American Society of Mechanical Engineers (ASME) and the American Society for Engineering Education (ASEE).

I'll not talk about the book in general, there are plenty of reviews on here that cover that.... I'm assuming you're buying it becasue it's required and you're trying to get the best deal. I was and I bought the global edition. It's a paperback version and supposed to have the exact same contents as the version for the US market. But at around $25 (and paperback!) I bought it. My professor assigns homework straight from the book which is where I ran into issues. For example, the #24 in her 10th edition for the first section is my #22. It seems all the same problems are there, but in a different order, so if your prof is going to do what mine is, then this version may not be helpful to you. Luckily my professor does not collect nor grade homework, so it'll be okay for me.

Even though it is not the same book as US edition, it has exactly same content. This book is international edition published in India, but is exactly similar to the book that is published in US and is much cheaper.

I have been disappointed with the examples, and explanations in this book. As an engineering student, I learn best and understand the use of my material best when I can see it applied in a somewhat meaningful way. The book has very in-depth text on the theory of everything. I was also displeased by the labeling and collecting of formulas. It was done poorly, if at all in my opinion. I have no books to compare with this one so I cannot say whether others are better or worse but I was not totally pleased with this particular one.

Okay, but nothing exceptional. I remember quite clearly working problems over power plants with regenerators which was the main focus of the class since the instructor was a retired navy nuc/power plant engineer. When I took the physics thermodynamics course (Schroeder's Thermal Physics) I did not reference this book because I had sold it. Rather Moran and Shapiro was the choice.

All of the text and images are the same as the original book but the problems are in a different order which is frustrating if you have to do assigned problems from the text. A really good buy for the price but just be weary of the questions being switched up!

I love it as in, " yay it came in the mail quickly! two days after class had started, cause I am dreading the class and waited to order it last minute!!" Do I REALLY love it? It's actually rather funny in some sections. I especially like the passive aggressiveness towards America never changing to the metric system. HAHAHA

I will just give it a 2 because I feel good. Not short and concise like the great math texts in the past. I think text is somewhat choppy and not fluent. That is the text used in class. Maybe a tough math topic but if u want to get a good text Elementary Differential Equations Boyce 10th ed.

Needed this for class, it came as expected.

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