



Thermodynamics For Dummies

Mike Pauken

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Take some heat off the complexity of thermodynamics

Does the mere thought of thermodynamics make you sweat? It doesn't have to! This hands-on guide helps you score your highest in a thermodynamics course by offering easily understood, plain-English explanations of how energy is used in things like automobiles, airplanes, air conditioners, and electric power plants.

- Thermodynamics 101 — take a look at some examples of both natural and man-made thermodynamic systems and get a handle on how energy can be used to perform work
- Turn up the heat — discover how to use the first and second laws of thermodynamics to determine (and improve upon) the efficiency of machines
- Oh, behave — get the 411 on how gases behave and relate to one another in different situations, from ideal-gas laws to real gases
- Burn with desire — find out everything you need to know about conserving mass and energy in combustion processes

Open the book and find:

- The laws of thermodynamics
- Important properties and their relationships
- The lowdown on solids, liquids, and gases
- How work and heat go hand in hand
- The cycles that power thermodynamic processes
- Chemical mixtures and reactions
- Ten pioneers in thermodynamics
- Real-world applications of thermodynamic laws and concepts

Learn to:

- Master the concepts and principles of thermodynamics
- Develop the problem-solving skills used by professional engineers
- Ace your thermodynamics course

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