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Heat and temperature are different physical quantities. When two objects with different temperatures are in contact with each other, heat flows from the hotter system to the colder one. Heat is a measure of energy. An increase or decrease in mechanical energy in a system always accompanies an equal decrease or increase of heat, respectively.

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- Heat is a measure of the total kinetic energy of the particles in a body
- Heat is measured in Joules (J) or kilojoules (kJ).
- Heat energy flows from bodies of high temperature to bodies of lower temperature.
- The heat content of a body depends on its mass, temperature and the material it is made of.

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Heat, energy that is transferred from one body to another as the result of a difference in temperature. If two bodies at different temperatures are brought together, energy is transferred—i.e., heat flows—from the hotter body to the colder. The effect of this transfer of energy usually, but not always, is an increase in the temperature of the colder body and a decrease in the temperature of the hotter body.

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LEVEL: This book covers waves, fluids, sound, heat, and light from physics with calculus at the university level. (If instead you're looking for a trig-based physics book, search for ISBN 1941691188.) Note that the calculus-based edition includes all of material from the trig-based book, plus coverage of the calculus-based material. In this volume, the calculus is mostly limited to thermal physics. DESCRIPTION: This combination of physics study guide and workbook focuses on essential problem-solving skills and strategies: Fully solved examples with explanations show you step-by-step how to solve standard university physics problems. Handy charts tabulate the symbols, what they mean, and their SI units. Problem-solving strategies are broken down into steps and illustrated with examples. Answers, hints, intermediate answers, and explanations are provided for every practice exercise. Terms and concepts which are essential to solving physics problems are defined and explained. VOLUME: This volume covers waves, fluids, sound, heat, and light, including simple harmonic motion, standing waves, the Doppler effect, Archimedes' principle, the laws of thermodynamics, heat engines, principles of optics, Snell's law, thin lenses, spherical mirrors, diffraction, interference, polarization, and more.

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