

Thermodynamics Study Guide

Equations that you need to know:

$$PV = nRT = Nk_B T \quad (\text{ideal gas law})$$

$$\text{KE} = \frac{3}{2} k_B T \quad (\text{translational energy of gas molecules})$$

$$Q = mc \Delta T \quad (\text{def. of specific heat capacity})$$

$$Q = mL \quad (\text{def. of latent heat})$$

$$\Delta U = Q - W \quad (\text{first law / energy conservation})$$

$$W = P \Delta V = \text{area under } P\text{-}V \text{ graph} \quad (\text{work done during expansion})$$

$$\Delta S = \frac{Q}{T} \quad (\text{increase in entropy due to heat input})$$

$$\text{engine efficiency} = \frac{\text{benefit}}{\text{cost}} = \frac{W_{\text{net}}}{Q_h}$$

$$\text{refrigerator coef. of performance} = \frac{\text{benefit}}{\text{cost}} = \frac{Q_c}{W_{\text{net}}}$$

I'll give you the formulas for thermal expansion, heat conduction, and radiation:

$$\frac{\Delta L}{L_0} = \alpha \Delta T \quad \frac{\Delta V}{V_0} = \beta \Delta T \quad \frac{Q}{\Delta t} = \frac{k_t A (T_h - T_c)}{\Delta x} \quad \frac{Q}{\Delta t} = e \sigma A T^4$$

You should understand the following terms/concepts:

- temperature
- thermal equilibrium
- ideal gas
- mole
- rms speed
- phase transformation
- heat
- work
- conduction
- convection
- radiation
- isothermal
- adiabatic
- entropy
- second law of thermodynamics

Finally, you should know the approximate numerical values of the following: room temperature in kelvin; atmospheric pressure in N/m^2 ; the number of liters in a m^3 ; the gas constant; Avogadro's number; Boltzmann's constant; and the number of joules in a calorie (i.e., the specific heat capacity of water).

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James E. Brady, John R. Holum



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Fundamentals of Thermodynamics Mr. Rohit Manglik, 2023-07-23 Explains thermodynamic principles laws and their applications in engineering systems **Fundamentals of Engineering Thermodynamics** Michael J. Moran, Howard N. Shapiro, Daisy D. Boettner, Margaret B. Bailey, 2010-12-07 This leading text in the field maintains its engaging readable style while presenting a broader range of applications that motivate engineers to learn the core thermodynamics concepts Two new coauthors help update the material and integrate engaging new problems Throughout the chapters they focus on the relevance of thermodynamics to modern engineering problems Many relevant engineering based situations are also presented to help engineers model and solve these problems Physics - Thermodynamics Brett Kraabel, 2019-05 For this challenging area of Physics get the answers you need at your fingertips faster than any other source Success in Physics is critical when entering the growing fields of technology computer science and engineering that will support our future progress and innovation with breakthroughs and advances To help retain the facts equations and concepts essential to success in class and beyond these 6 laminated pages can be referenced quickly and easily while studying as a refresher before exams or even as a desktop reference beyond school Expertly written by author editor and professor Brett Kaabel PhD and designed for quick use and high retention Be sure to get our original Physics guide and Physics 2 for more complete coverage and better grades for an unmatched value 6 page laminated guide includes Introduction Conventions Extensive vs Intensive Properties Moles Thermal Energy Temperature Definitions Temperature Scales Laws of Thermodynamics Zeroth Law of Thermodynamics First Law of Thermodynamics Second Law of Thermodynamics Thermodynamic Potentials Fundamental Thermodynamic Relationships Maxwell Relations Thermal Properties of Systems Linear Expansion Volume Expansion Heat Capacity Phases Phase Diagram Change of Phase Kinetic Theory of Gases Kinetic Theory of Ideal Gas Equation of State for Ideal Gas Van der Waals Equation of State Equations of the State of Liquids Transfer of Thermal Energy Conduction Convection Evaporation Radiation Thermodynamic Processes Change in Internal Energy for Any Ideal Gas Process Change in Entropy for Any Ideal Gas Process Constrained Ideal Gas Processes Heat Engines Physics for Beginners: A Study Guide Cybellium, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you're a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www.cybellium.com Organic Chemistry Study Guide with Solutions Manual Neil E. Schore, 2007

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