

DE-100A: STUDY GUIDE

Introduction and Overview - what topics will you be learning
 - thermodynamics, gases, electricity, magnetism, optics, modern physics
Chapter 1: Thermodynamics
 - temperature, heat, work, internal energy, the first and second laws of thermodynamics

Key Concepts:
 - Temperature: a measure of the average kinetic energy of the particles in a substance.
 - Heat: energy transferred between two systems due to a temperature difference.
 - Work: energy transferred when a force is applied over a distance.
 - Internal Energy: the total energy contained within a system.



Chapter 2: Gases
 - Ideal Gas Law: $PV = nRT$
 - Kinetic Theory of Gases: relates the macroscopic properties of a gas to the microscopic behavior of its molecules.
 - First Law of Thermodynamics: $\Delta U = Q - W$
 - Second Law of Thermodynamics: states that the total entropy of an isolated system can never decrease over time.



Chapter 3: Heat Engines and the Carnot Cycle
 - Heat Engine: a device that converts heat into work.
 - Carnot Cycle: the most efficient cycle possible between two isotherms.
 - Efficiency: $\eta = \frac{W}{Q_{in}}$



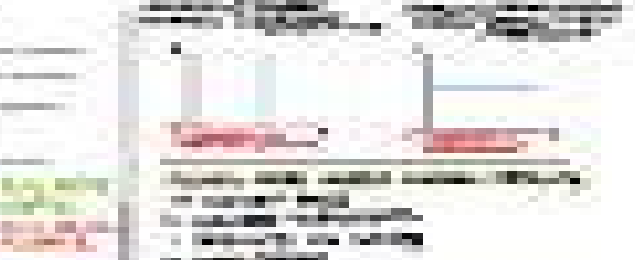
Chapter 4: Electricity and Magnetism
 - Electric Charge: the property of matter that causes it to experience a force due to other charged objects.
 - Electric Field: a vector field that represents the force per unit charge exerted on a test charge.
 - Magnetic Field: a vector field that represents the force per unit charge exerted on a moving charge.

$$F = k \frac{q_1 q_2}{r^2} \quad E = \frac{F}{q} \quad V = \frac{W}{q} \quad I = \frac{Q}{t} \quad R = \frac{V}{I}$$

Chapter 5: Optics
 - Ray Optics: describes the propagation of light as rays.
 - Wave Optics: describes the propagation of light as waves.
 - Interference: the phenomenon where two or more waves overlap to form a new wave pattern.



Chapter 6: Modern Physics
 - Special Relativity: describes the relationship between space and time.
 - Quantum Mechanics: describes the behavior of particles at the atomic and subatomic level.
 - Relativity: describes the relationship between space and time.



Microeconomics Final Study Guide

CO Houle



Microeconomics Final Study Guide:

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