



Physics for Scientists & Engineers Vol. 2 (Chs 21-35) with MasteringPhysics (4th Edition)

By Giancoli, Douglas C.

Addison-Wesley, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: CHAPTER 20: SECOND LAW OF THERMODYNAMICS 201 The Second Law of Thermodynamics-Introduction 202 Heat Engines 203 Reversible and Irreversible Processes; the Carnot Engine 204 Refrigerators, Air Conditioners, and Heat Pumps 205 Entropy 206 Entropy and the Second Law of Thermodynamics 207 Order to Disorder 208 Unavailability of Energy; Heat Death *209 Statistical Interpretation of Entropy and the Second Law *2010 Thermodynamic Temperature Sca Absolute Zero and the Third Law of Thermodynamics *2011 Thermal Pollution, Global Warming, and Energy Resources SUMMARY QUESTIONS PROBLEMS GENERAL PROBLEMS CHAPTER 21: ELECTRIC CHARGE AND ELECTRIC FIELD 21-1 Static Electricity; Electric Charge and Its Conservation 21-2 Electric Charge in the Atom 21-3 Insulators and Conductors 21-4 Induced Char the Electroscope 21-5 Coulomb's Law 21-6 The Electric Field 21-7 Electric Field Calculations for Continuous Charge Distributions 21-8 Field Lines 21-9 Electric Fields and Conductors 21-10 Motion of a Charged Particle in an Electric Field 21-11 Electric Dipoles *21-12 Electric Forces in Molecular Biology; DNA *21-13 Photocopy Machines and Computer Printers Use Electrostatics SUMMARY QUESTIONS PROBLEMS GENERAL PROBLEMS CHAPTER 22: GAUSS'S LAW 22-1 Electric Flux 22-2 Gauss's Law 22-3 Applications of Gauss's...

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