



Molecular Physics: Personal Study Notes: Atomic, Molecular, and Nuclear Physics

By Mohamed F El-Hewie

Createspace, United States, 2011. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****.This volume encompasses five chapters from my personal study notes which covers all courses and notes in my study of Nuclear Engineering, from high school throughout my post-doctorate associateship. CHAPTER 9: The Wave Nature of Matter The Wave Nature of Matter DE BROGLIE S CONCEPT OF MATTER WAVES EXPERIMENTAL STUDY OF MATTER WAVES EXPERIMENTS OF DAVISSON AND GERMER EXPERIMENTS OF G. P. THOMSON THEORETICAL STUDY OF MATTER WAVES QUANTUM MECHANICS Matrices Algebra 1. THE CORPUSCULAR CONCEPT OF MATTER 2. THE TRANSFORMATION THEORY WAVE MECHANICS PHYSICAL SIGNIFICANCE OF the wave function PRINCIPLE OF INDETERMINACY CRITICISM OF THE THEORY OF MATTER WAVES CHAPTER 10: Quantum Statistics Principles of statistical mechanics Calculus of probabilities and its laws CLASSICAL STATISTICS APPLICATIONS OF THE QUANTUM STATISTICS A. Bose-Einstein statistics 1. Black body radiation 2. Gas degeneration B. Fermi-Dirac statistics 1. Electron theory of metals 2. Thermal and electrical conductivities 3. Thermoelectricity 4. Thermionic effect 5. Photoelectric effect 6. Contact potential difference (Volta effect) 7. Paramagnetism of the alkali metals CRITICISM OF THE QUANTUM STATISTICS CHAPTER 11: The Atom SPECIAL UNITS USED IN ATOMIC...



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