



## Nuclear Physics: Personal Study Notes: Atomic, Molecular, and Nuclear Physics (Paperback)

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 three 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 14: ARTIFICIAL TRANSMUTATION TECHNIQUE FOR PRODUCING SUITABLE AGENTS OF TRANSMUTATION VAN DE GRAAFF ELECTROSTATIC HIGH TENSION GENERATOR COCKCROFT AND WALTON TENSION MULTIPLIER RESONANCE ACCELERATOR-CYCLOTRON MORE POWERFUL PARTICLE-ACCELERATING MACHINES METHOD OF SCINTILLATIONS METHOD OF CHEMICAL SEPARATIONS MAGNETIC SPECTROGRAPH METHOD IONIZATION CHAMBER METHOD COUNTER METHOD CLOUD CHAMBER METHOD PHOTOGRAPHIC EMULSION METHOD CERTAIN PROMINENT TYPES OF NUCLEAR REACTIONS 1. THE NEUTRON 2. ARTIFICIAL OR INDUCED RADIOACTIVITY 3. NUCLEAR FISSION THE REACTOR OR PILE THE ATOM BOMB (1) Source of stellar energy (2) The hydrogen bomb (3) The rigged H-bomb (4) Controlled thermonuclear reaction CHAPTER 15: COSMIC RAYS A. The cosmic ray ionization chamber B. The coincidence counters C. The scintillation counters D. The counter controlled cloud chamber E. The photographic emulsion method F. The bubble chamber method 7. THE ABSORPTION OF COSMIC RAYS IN MATTER 8. MEASUREMENT OF THE ENERGY OF COSMIC RAYS 9. THE POSITRON 10- THE MESOTRON 11.

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