

cluding some of the modern experiments in magnetic resonance. Next follows a chapter on natural radioactivity and a discussion of various nuclear radiations; nuclear states are discussed in connection with the emission of gamma rays. Induced nuclear transformations are taken up and a brief account is given of the important nuclear accelerators in current use and of important discoveries in transuranic elements. A whole chapter is devoted to nuclear energy sources which describes mainly reactors and reactor theory. A fairly up-to-date account is given of high-energy nuclear processes, mesons, and finally cosmic rays.

Of necessity the large amount of material which is touched upon demands that it is treated rather briefly, at times even sketchily. This should be no handicap for the teacher but may make the book difficult for self-study. It is gratifying to see that so many up-to-date topics and current problems are included. The Lamb shift is discussed, hyperons are mentioned; there is very little actually left out. The book demands some knowledge of the special theory of relativity and of electricity and magnetism. There are no problems.

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