
The first three chapters present a brief descriptive review of atoms, nuclei and radioactivity. The subsequent two chapters record the various equations associated with fission and neutron interactions. Derivations are frequently omitted. However, derivations are nicely present in the chapter on diffusion and would be welcomed by those not too well versed in the kinetic theory of gases. The differential equations are set up and worked out in most instances. Also, lattice constants and pile kinetics are well done. The latter chapters on operation and construction of detection are too brief to be helpful to those other than the uninitiated in the field. A chapter is devoted to the introduction to the very extensive subject of radiation damage. Four appendices are included in the second edition. The second edition contains several additions and considerable rearrangement of material. No problems are included at the end of each chapter, however, several illustrative examples are worked out throughout the text.

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