

Basic Health Physics

Problems and Solutions

Written by a best-selling authority in the field, this comprehensive manual/workbook examines the problems of protection from the hazards of radiation or prevention of damage from exposure to radiation, while still allowing us to make full use of this widely-varied form of energy. The book features over 800 worked examples, helping to illustrate and emphasize basic health physics concepts and principles. It also serves as a useful text and study guide for Part I of the American Board of Health's Physics exam, by presenting everything covered on the exam in one location.

Radiation litigation, the cleanup and decommissioning of nuclear facilities, radon exposure, nuclear medicine, food irradiation, stricter regulatory climate--these are some of the reasons health physics and radiation protection professionals are increasingly called upon to upgrade their skills. Designed to prepare candidates for the American Board of Health Physics Comprehensive examination (Part I) and other certification examinations, Basic Health Physics: Problems and Solutions introduces professionals in the field to radiation protection principles and their practical application in routine and emergency situations. It features more than 650 worked examples illustrating concepts under discussion along with an in-depth coverage of sources of radiation, standards and regulations, biological effects of ionizing radiation, instrumentation, external and internal dosimetry, counting statistics, monitoring and interpretations, operational health physics, transportation and waste, nuclear emergencies, and more. Reflecting for the first time the true scope of health physics at an introductory level, Basic Health Physics: Problems and Solutions gives readers the tools to properly evaluate challenging situations in all areas of radiation protection, including the medical, university, power reactor, fuel cycle, research reactor, environmental, non-ionizing radiation, and accelerator health physics.

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