

Basic Health Physics: Problems and Solutions

By Joseph John Bevelacqua

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Designed to prepare candidates for the American Board of Health Physics Comprehensive examination (Part I) and other certification examinations, this monograph 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 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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Editorial Review

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About the Author

Joseph John Bevelacqua, PhD, CHP, is the President of Bevelacqua Resources. A theoretical nuclear physicist by training, Dr. Bevelacqua is a Certified Health Physicist and Certified Senior Reactor Operator and has over 30 years of professional experience. This experience includes the medical, fuel cycle, accelerator, power reactor, environmental, and non-ionizing areas. He was a key player in the Three Mile Island and Hanford cleanup activities, and is an active researcher with over 75 publications. His research areas include heavy ion cancer therapy, theoretical physics, and health physics applications. He recently received California University's Professional Excellence Award for his accomplishments.

Users Review

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Joseph Cosgrove:

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