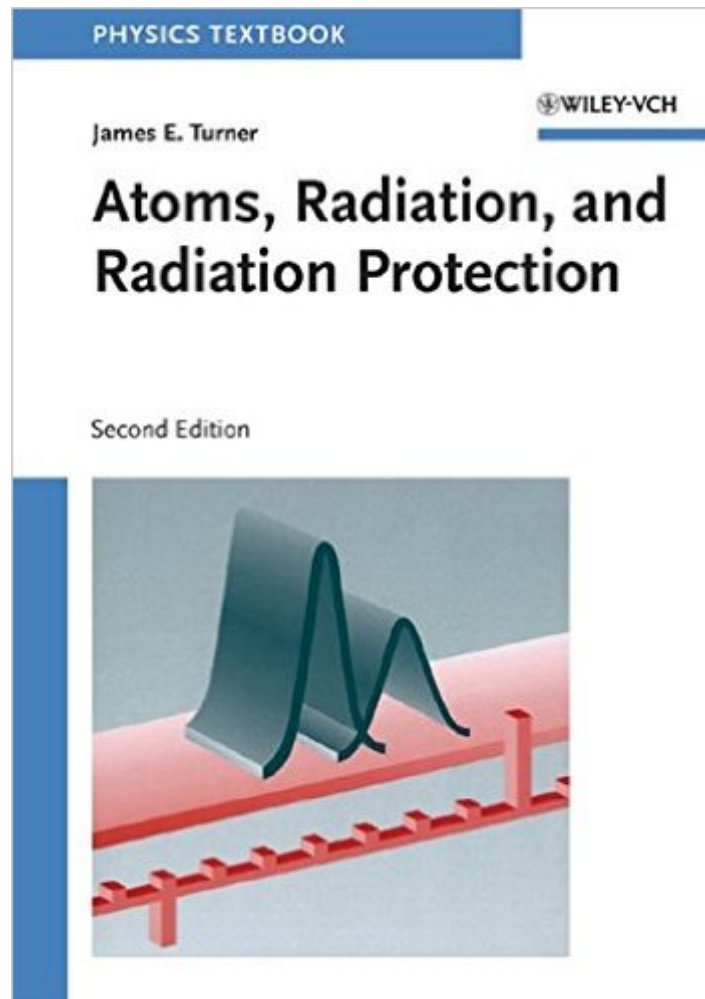


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Atoms, Radiation, And Radiation Protection, 2nd Edition



Synopsis

This thoroughly updated and expanded edition features two new chapters on statistics for health physics and on environmental radioactivity, particularly concerning radon and radon daughters. Fresh material includes: a derivation of the stopping-power formula for heavy charged particles in the impulse approximation, a detailed discussion of beta-particle track structure and penetration in matter, an extensive description of the various interaction coefficients for photons, several new worked examples and additional end-of-chapter problems.

Book Information

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Customer Reviews

This text by James Earl Turner, Ph.D., M.S.(physics), M.S. (Industrial Hygiene), Certified by American Board of Health Physics), is a relatively concise but thorough treatment of the underpinning results of physics necessary for professional work in the field of protecting workers, the public, and the environment from harmful effects of ionizing or nuclear radiations. I have used this text as a secondary text to that of Herman Cember's text in other courses, and am now using it as the principal required reading for a course in Nuclear Environmental Protection (NEP520) in the Spring semester at The Catholic University of America, in Washington, DC, 2013. Dr. Turner, at his passing a couple of years ago, was probably the greatest theoretical physicist in the field of radiation protection at the time of his death, and also interested in teaching the practical information needed for the typical health physicist in performing duties related to the assessment of radiation

doses and risks and providing protection against undue exposures. There is a 3rd edition that has been published. I am teaching from the second edition, so one should be sure which edition is desired and being purchased. Used 2nd editions should provide all the basics needed for adequate professional work. Sincerely, Allen Brodsky, Sc.D. Adjunct Professor, faculty of Catholic U, and Georgetown U in Washington, DC. January 27, 3013

Most of the topics (basic radiation physics, detection, interaction with matter) in this book are covered in more depth in other texts (Krane, Knoll), but this book does a good job at covering the specific topics having more to do with human interaction. However, this is only ~1/2 of the whole book.

I think this book it's a very deep and complete guide about the application of physics to medicine. I recommend this book to the student and to the teacher .

This book was most useful to me in calculating dose, it has a good breadth of the subject matter and will purchase my own copy...currently using advisor's copy.

Solid and practical, purchased for graduate course in radiation transport

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