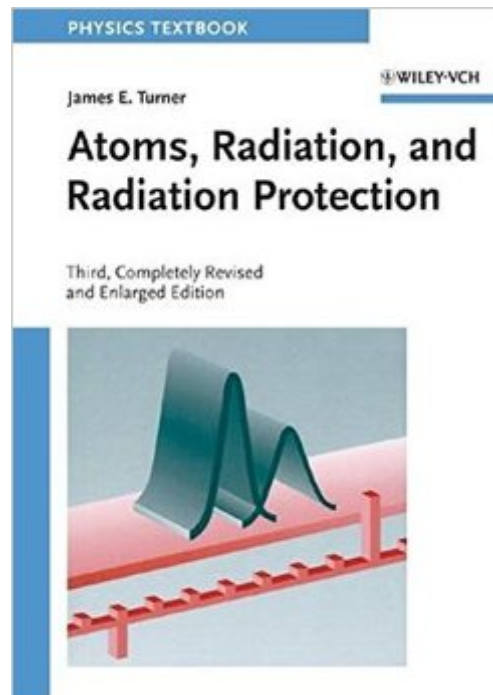


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# Atoms, Radiation, And Radiation Protection



## Synopsis

Atoms, Radiation, and Radiation Protection offers professionals and advanced students a comprehensive coverage of the major concepts that underlie the origins and transport of ionizing radiation in matter. Understanding atomic structure and the physical mechanisms of radiation interactions is the foundation on which much of the current practice of radiological health protection is based. The work covers the detection and measurement of radiation and the statistical interpretation of the data. The procedures that are used to protect man and the environment from the potential harmful effects of radiation are thoroughly described. Basic principles are illustrated with an abundance of worked examples that exemplify practical applications. Chapters include problem sets (with partial answers) and extensive tables and graphs for continued use as a reference work. This completely revised and enlarged third edition includes thorough updates of the material, including the latest recommendations of the ICRP and NCRP.

## 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, 2013

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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