

# Introduction To Radiological Physics And Radiation Dosimetry

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## **Introduction to Radiological Physics and Radiation ...**

Frank Herbert Attix is the author of Introduction to Radiological Physics and Radiation Dosimetry, published by Wiley.

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Course Objectives • Understand the basic physics of the electromagnetic and particulate forms of ionizing radiation. • Understand the distinctions between the units of radiation

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quantity, exposure and dose. • Be familiar with some of the methods used to measure radiation dose.

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## **Introduction to Radiological Physics and Radiation Dosimetry**

by Frank Herbert Attix. In Chapters 15 and 16 of Intermediate Physics for Medicine and Biology, Russ Hobbie and I often cite Introduction to Radiological Physics and Radiation Dosimetry by Frank Herbert Attix. This book, published in 1986, is an oldie but goodie.

## **Introduction to Radiological Physics and Radiation Dosimetry**

What is included is a logical, rather than historical, development of radiological physics, leading into radiation dosimetry in its broadest sense. There is no such thing as a pjkt sequence-one that always builds on material that has gone before and never has to reach ahead for some as yet untaught fact. However, the

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Fundamentals of Radiation Dosimetry and Radiological Physics  
AlexFBielajew TheUniversityofMichigan  
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## **Fundamentals of Radiation Dosimetry and Radiological Physics**

Introduction to Health Physics, Fifth Edition spans the entire scope of the field and offers an effective problem-solving approach that once mastered will serve you throughout your career. Logically divided into fourteen sections, beginning with a review of physical principles, coverage includes radiation sources, radiation dosimetry, radiation safety guidelines, evaluation of safety measures, and more.

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Radiological physics is the science of ionizing radiation and its interaction with matter, with special interest in the energy thus absorbed. Radiation dosimetry. Covers photon and neutron attenuation, radiation and charged particle equilibrium, Frank H. Attix A straightforward presentation of the broad concepts underlying radiological physics and radiation dosimetry for the graduate-level student.

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The Section assists Member States with the safe and effective use of radiation medicine. It promotes quality assurance and quality improvement practices in radiation oncology and imaging, supports the establishment of best practices in clinical medical physics and helps achieve worldwide coherence in radiation dosimetry.



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An Introduction to Radiation Protection is an accessible account of the nature of the hazards presented by ionizing radiation and the methods of protection, for those new to the field and for the non-specialist.

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INTRODUCTION Health physics, radiological health, or radiological engineering are synonymous terms for that area of public health and environmental health engineering that deals with the safe use of ionizing and nonionizing radiation in order to prevent harmful effects of the radiation to individuals, to population groups, and to the biosphere.