

Radiation Detector Fake Detector 41

Genn F. Knoll

Radiation Detection W. H. Tait,1980

Radiation Detection Douglas McGregor,J. Kenneth Shultis,2020-08-19 Radiation Detection: Concepts, Methods, and Devices provides a modern overview of radiation detection devices and radiation measurement methods. The book topics have been selected on the basis of the authors' many years of experience designing radiation detectors and teaching radiation detection and measurement in a classroom environment. This book is designed to give the reader more than a glimpse at radiation detection devices and a few packaged equations. Rather it seeks to provide an understanding that allows the reader to choose the appropriate detection technology for a particular application, to design detectors, and to competently perform radiation measurements. The authors describe assumptions used to derive frequently encountered equations used in radiation detection and measurement, thereby providing insight when and when not to apply the many approaches used in different aspects of radiation detection. Detailed in many of the chapters are specific aspects of radiation detectors, including comprehensive reviews of the historical development and current state of each topic. Such a review necessarily entails citations to many of the important discoveries, providing a resource to find quickly additional and more detailed information. This book generally has five main themes: Physics and Electrostatics needed to Design Radiation Detectors Properties and Design of Common Radiation Detectors Description and Modeling of the Different Types of Radiation Detectors Radiation Measurements and Subsequent Analysis Introductory Electronics Used for Radiation Detectors Topics covered include atomic and nuclear physics, radiation interactions, sources of radiation, and background radiation. Detector operation is addressed with chapters on radiation counting statistics, radiation source and detector effects, electrostatics for signal generation, solid-state and semiconductor physics, background radiations, and radiation counting and spectroscopy. Detectors for gamma-rays, charged-particles, and neutrons are detailed in chapters on gas-filled, scintillator, semiconductor, thermoluminescence and optically stimulated luminescence, photographic film, and a variety of other detection devices.

Radiation Detection and Measurement Glenn F. Knoll,1979 * The author uses his extensive research experience in radiation measurements, nuclear instrumentation, and radiation imaging to provide you with an invaluable resource.

Gamma Radiation Detector and Warning System James B. Deal,1961

Radiation Detection and Measurement ,1984

Introduction to Nuclear Radiation Detectors P. J. Ouseph,1975-08 Good,No Highlights,No Markup,all pages are intact, Slight Shelfwear,may have the corners slightly dented, may have slight color changes/slightly damaged spine.

Radiation Detection and Measurement Douglas McGregor,2016-01-15 This text on radiation detection and measurement is a response to numerous requests expressed by students at various universities, in which the most popularly used books do not provide adequate background material, nor explain matters in understandable terms. This work provides a modern overview of radiation detection devices and radiation measurement methods. The topics selected in the book have been selected on the basis of the author's many years of experience designing radiation detectors and teaching radiation detection and measurement in a classroom environment.

Principles of Nuclear Radiation Detection Geoffrey G. Eichholz,John W. Poston,1980

Radioactivity and Radiation Detection Dudley G. Miller,1972

Radiation Detection And Measurement: Genn F. Knoll,2009-01-01

Nuclear Radiation Detection William James Price,1964

Atomic Radiation Detection and Measurement Harold S. Renne,1955

Nuclear Radiation Detection, Measurements and Analysis K. Muraleedhara Varier,2009

Principles of Nuclear Radiation Detection Geoffrey G. Eichholz,2017-12-13 This book is intended for senior undergraduate and beginning graduate students in physics, nuclear engineering, health physics and nuclear medicine, and for specialized training courses for radiation protection personnel and environmental safety engineers.To keep the size of the book manageable, material has been selected to stress those detectors that are in widespread use. Attempts have also been made to emphasize alternatives available in approaching various measurement problems and to present the criteria by which a choice among these alternatives may be made.

Radiation Detection for Nuclear Physics David Jenkins,2020-11-19 Radiation detection is key to experimental nuclear physics as well as underpinning a wide range of applications in nuclear decommissioning, homeland security and medical imaging. This book presents the state-of-the-art in radiation detection of light and heavy ions, beta particles, gamma rays and neutrons. The underpinning physics of different detector technologies is presented, and their performance is compared and contrasted. Detector technology likely to be encountered in contemporary international laboratories is also emphasized. There is a strong focus on experimental design and mapping detector technology to the needs of a particular measurement problem. This book will be invaluable to PhD students in experimental nuclear physics and nuclear technology, as well as undergraduate students encountering projects based on radiation detection for the first time. Key Features Provides clear, concise descriptions of key detection techniques Describes detector types with telescopic depth, so readers can go as deep as they wish Covers real-world applications including short case studies in industry

Solid state radiation detectors ,1961

Wie Radiation Detection and Measurement Glenn F Knoll,2002-08-08

Nuclear Radiation Detection William J. Price,1968

Nuclear Radiation Detection ,2018

Radiation Detection for Nuclear Physics David Gareth Jenkins,2020 Radiation detection is key to experimental nuclear physics as well as underpinning a wide range of applications in nuclear decommissioning, homeland security and medical imaging. This book presents the state-of-the-art in radiation detection of light and heavy ions, beta particles, gamma rays and neutrons. The underpinning physics of different detector technologies is presented, and their performance is compared and contrasted. Detector technology likely to be encountered in contemporary international laboratories is also emphasized. There is a strong focus on experimental design and mapping detector technology to the needs of a particular measurement problem. This book will be invaluable to PhD students in experimental nuclear physics and nuclear technology, as well as undergraduate students encountering projects based on radiation detection for the first time. Part of IOP Series in Nuclear Spectroscopy and Nuclear Structure. -- Prové de l'editor.

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