



Nuclear Radiation Detection Nuclear Engineering

H Kauffman



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Principles of Nuclear Radiation Detection Geoffrey G. Eichholz, 2018-05-04 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 Nuclear Radiation Detection William James Price, William John

Price, 1964 **Nuclear Radiation Engineering** Francis William Hutchinson, 1960 **Measurement and Detection of**

Radiation Nicholas Tsoulfanidis, 1983 The fundamentals of nuclear radiation counting for undergraduate and graduate students in nuclear science engineering nuclear medicine and health physics and for laboratory engineers scientists and technicians Covers statistical errors different types of radiation detectors relative and absolute measurements spectroscopy analyzing experimental data activation analysis and health physics Annotation copyright by Book News Inc Portland OR

Active Interrogation in Nuclear Security Igor Jovanovic, Anna S. Erickson, 2018-06-07 This volume constitutes the state of the art in active interrogation widely recognized as indispensable methods for addressing current and future nuclear security needs Written by a leading group of science and technology experts this comprehensive reference presents technologies and systems in the context of the fundamental physics challenges and practical requirements It compares the features limitations technologies and impact of passive and active measurement techniques describes radiation sources for active interrogation including electron and ion accelerators intense lasers and radioisotope based sources and it describes radiation detectors used for active interrogation Entire chapters are devoted to data acquisition and processing systems modeling and simulation data interpretation and algorithms and a survey of working active measurement systems *Active Interrogation in Nuclear Security* is structured to appeal to a range of audiences including graduate students active researchers in the field and policy analysts The first book devoted entirely to active interrogation Presents a focused review of the relevant physics Surveys available technology Analyzes scientific and technology trends Provides historical and policy context Igor Jovanovic is a Professor of Nuclear Engineering and Radiological Sciences at the University of Michigan and has previously also taught at Penn State University and Purdue University He received his Ph D from University of California Berkeley and worked as physicist at Lawrence Livermore National Laboratory Dr Jovanovic has made numerous contributions to the science and technology of radiation detection as well as the radiation sources for use in active interrogation in nuclear security He has taught numerous undergraduate and graduate courses in areas that include radiation detection nuclear physics and nuclear security At University of Michigan Dr Jovanovic is the director of Neutron Science Laboratory and is also associated with the Center for Ultrafast Optical Science Anna Erickson is an Assistant Professor in the Nuclear and Radiological Engineering

Program of the G W Woodruff School of Mechanical Engineering at Georgia Institute of Technology Previously she was a postdoctoral researcher in the Advanced Detectors Group at Lawrence Livermore National Laboratory Dr Erickson received her PhD from Massachusetts Institute of Technology with a focus on radiation detection for active interrogation applications Her research interests focus on nuclear non proliferation including antineutrino analysis and non traditional detector design and characterization She teaches courses in advanced experimental detection for reactor and nuclear nonproliferation applications radiation dosimetry and fast reactor analysis

Physics and Engineering of Radiation Detection Syed Naeem Ahmed, 2007-04-12 *Physics and Engineering of Radiation Detection* presents an overview of the physics of radiation detection and its applications It covers the origins and properties of different kinds of ionizing radiation their detection and measurement and the procedures used to protect people and the environment from their potentially harmful effects It details the experimental techniques and instrumentation used in different detection systems in a very practical way without sacrificing the physics content It provides useful formulae and explains methodologies to solve problems related to radiation measurements With abundance of worked out examples and end of chapter problems this book enables the reader to understand the underlying physical principles and their applications Detailed discussions on different detection media such as gases liquids liquefied gases semiconductors and scintillators make this book an excellent source of information for students as well as professionals working in related fields Chapters on statistics data analysis techniques software for data analysis and data acquisition systems provide the reader with necessary skills to design and build practical systems and perform data analysis Covers the modern techniques involved in detection and measurement of radiation and the underlying physical principles Illustrates theoretical and practical details with an abundance of practical worked out examples Provides practice problems at the end of each chapter

Karl Rudolf Schmidt: Nutzenergie aus Atomkernen. Band 2 Karl Rudolf Schmidt, 2019-06-17 Keine ausführliche Beschreibung für SCHMIDT NUTZENERGIE AUS ATOMKERNEN BD 2 NEA E BOOK verfügbar

Nuclear Radiation Detection [by] William J. Price William James Price, *Lehrbuch der Nuklearelektronik* Peter Weinzierl, Manfred Drosig, 2013-03-13 *WES Microthesaurus of Scientific and Technical Terms* Waterways Experiment Station (U.S.), 1977

Nuclear Science Abstracts, 1976-06 **Energy Research Abstracts**, 1980 *Thesaurus of Engineering and Scientific Terms* Engineers Joint Council, 1967 TID, 1962 **University of Michigan Official Publication**, 1960 General Register University of Michigan, 1961 Announcements for the following year included in some vols

Catalogue of the University of Michigan University of Michigan, 1967 Announcements for the following year included in some vols

Engineering Thermofluids Mahmoud Massoud, 2005-09-16 Thermofluids while a relatively modern term is applied to the well established field of thermal sciences which is comprised of various intertwined disciplines Thus mass momentum and heat transfer constitute the fundamentals of thermofluids This book discusses thermofluids in the context of thermodynamics single and two phase flow as well as heat transfer associated with single and

two phase flows Traditionally the field of thermal sciences is taught in universities by requiring students to study engineering thermodynamics fluid mechanics and heat transfer in that order In graduate school these topics are discussed at more advanced levels In recent years however there have been attempts to integrate these topics through a unified approach This approach makes sense as thermal design of widely varied systems ranging from hair dryers to semiconductor chips to jet engines to nuclear power plants is based on the conservation equations of mass momentum angular momentum energy and the second law of thermodynamics While integrating these topics has recently gained popularity it is hardly a new approach For example Bird Stewart and Lightfoot in Transport Phenomena Rohsenow and Choi in Heat Mass and Momentum Transfer El Wakil in Nuclear Heat Transport and Todreas and Kazimi in Nuclear Systems have pursued a similar approach These books however have been designed for advanced graduate level courses More recently undergraduate books using an integral approach are appearing Radiation Detection and Measurement Glenn F. Knoll, 2000-01-05 A Classic Text on Radiation Detection and Measurement Now Updated and Expanded Building on the proven success of this widely used text the Third Edition will provide you with a clear understanding of the methods and instrumentation used in the detection and measurement of ionizing radiation It provides in depth coverage of the basic principles of radiation detection as well as illustrating their application in a full set of modern instruments In addition to a complete description of well established detection and spectroscopic methods many recently developed approaches are also explored These include extensive new discussions of semiconductor detectors with unique properties recently developed scintillation materials and photomultiplier tubes and several gas filled detectors of new design Many other updates and additions have been made throughout the text and two appendices have been added Over 100 new figures and tables have been included Key Features of the Third Edition Every chapter has been updated with extensive addition of new references to relevant articles in the scientific literature A number of new detection techniques have been added strengthening the status of the text as the most comprehensive coverage of the topic to be found in any single book The writing style has maintained the readability that has attracted favorable response from readers and reviewers of the earlier editions The author uses his extensive research experience in radiation measurements nuclear instrumentation and radiation imaging to provide you with an invaluable resource

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