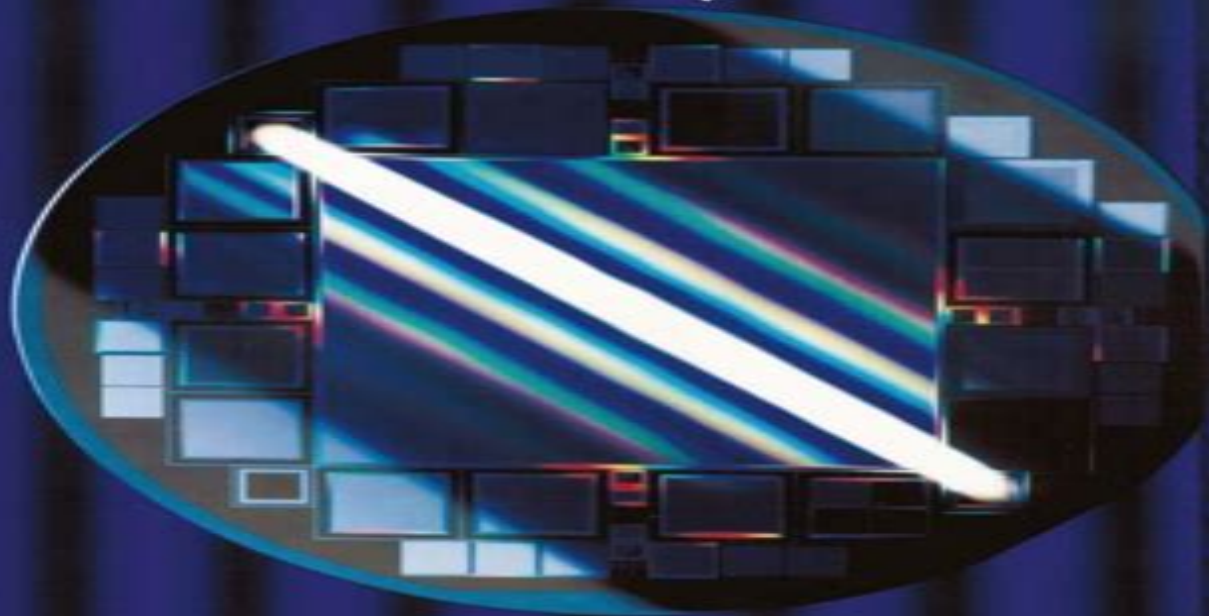


GERHARD LUTZ

Semiconductor Radiation Detectors

Device Physics



Springer

Semiconductor Radiation Detectors Device Physics

Lucio Cerrito



Semiconductor Radiation Detectors Device Physics:

Semiconductor Radiation Detectors Gerhard Lutz, 2001-11-01 Starting from basic principles this book describes the rapidly growing field of modern semiconductor detectors used for energy and position measurement radiation The author whose own contributions to these developments have been significant explains the working principles of semiconductor radiation detectors in an intuitive way Broad coverage is also given to electronic signal readout and to the subject of radiation damage

Compound Semiconductor Radiation Detectors Alan Owens, 2012-04-25 Although elemental semiconductors such as silicon and germanium are standard for energy dispersive spectroscopy in the laboratory their use for an increasing range of applications is becoming marginalized by their physical limitations namely the need for ancillary cooling their modest stopping powers and radiation intolerance Compound semiconductors on the other hand encompass such a wide range of physical and electronic properties that they have become viable competitors in a number of applications Compound Semiconductor Radiation Detectors is a consolidated source of information on all aspects of the use of compound semiconductors for radiation detection and measurement Serious Competitors to Germanium and Silicon Radiation Detectors Wide gap compound semiconductors offer the ability to operate in a range of hostile thermal and radiation environments while still maintaining sub keV spectral resolution at X ray wavelengths Narrow gap materials offer the potential of exceeding the spectral resolution of germanium by a factor of three However while compound semiconductors are routinely used at infrared and optical wavelengths their development in other wavebands has been plagued by material and fabrication problems So far only a few have evolved sufficiently to produce commercial detection systems From Crystal Growth to Spectroscopic Performance Bringing together information scattered across many disciplines this book summarizes the current status of research in compound semiconductor radiation detectors It examines the properties growth and characterization of compound semiconductors as well as the fabrication of radiation sensors with particular emphasis on the X and gamma ray regimes It explores the limitations of compound semiconductors and discusses current efforts to improve spectral performances pointing to where future discoveries may lie A timely resource for the established researcher this book serves as a comprehensive and illustrated reference on material science crystal growth metrology detector physics and spectroscopy It can also be used as a textbook for those new to the field of compound semiconductors and their application to radiation detection and measurement

Semiconductor Radiation Detection Systems Krzysztof Iniewski, 2018-10-03 Semiconductor Radiation Detection Systems addresses the state of the art in the design of semiconductor detectors and integrated circuit design in the context of medical imaging using ionizing radiation It addresses exciting new opportunities in X ray detection Computer Tomography CT bone dosimetry and nuclear medicine PET SPECT In addition to medical imaging the book explores other applications of semiconductor radiation detection systems in security applications such as luggage scanning dirty bomb detection and border control Features a chapter written by well known Gamma Ray Imaging authority

Tadayuki Takahashi Assembled by a combination of top industrial experts and academic professors this book is more than just a product manual It is practical enough to provide a solid explanation of presented technologies incorporating material that offers an optimal balance of scientific and academic theory With less of a focus on math and physical details the author concentrates more on exploring exactly how technologies are being used With its combined coverage of new materials and innovative new system approaches as well as a succinct overview of recent developments this book is an invaluable tool for any engineer professional or student working in electronics or an associated field

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

Semiconductor Radiation Detectors Alan Owens, 2019-05-31 Choice Recommended Title July 2020 Bringing together material scattered across many disciplines Semiconductor Radiation Detectors provides readers with a consolidated source of information on the properties of a wide range of semiconductors their growth characterization and the fabrication of radiation sensors with emphasis on the X and gamma ray regimes It explores the promise and limitations of both the traditional and new generation of semiconductors and discusses where the future in semiconductor development and radiation detection may lie The purpose of this book is two

fold firstly to serve as a text book for those new to the field of semiconductors and radiation detection and measurement and secondly as a reference book for established researchers working in related disciplines within physics and engineering

Features The only comprehensive book covering this topic Fully up to date with new developments in the field Provides a wide ranging source of further reference material

Silicon Solid State Devices And Radiation Detection Claude Leroy, Pier-giorgio Rancoita, 2012-07-24 This book addresses the fundamental principles of interaction between radiation and matter the principles of working and the operation of particle detectors based on silicon solid state devices It covers a broad scope in the fields of application of radiation detectors based on silicon solid state devices from low to high energy physics experiments including in outer space and in the medical environment This book also covers state of the art detection techniques in the use of radiation detectors based on silicon solid state devices and their readout electronics including the latest developments on pixelated silicon radiation detector and their application The content and coverage of the book benefit from the extensive experience of the two authors who have made significant contributions as researchers as well as in teaching physics students in various universities

Electronics for Radiation Detection Krzysztof Iniewski, 2018-09-03 There is a growing need to understand and combat potential radiation damage problems in semiconductor devices and circuits Assessing the billion dollar market for detection equipment in the context of medical imaging using ionizing radiation Electronics for Radiation Detection presents valuable information that will help integrated circuit IC designers and other electronics professionals take full advantage of the tremendous developments and opportunities associated with this burgeoning field Assembling contributions from industrial and academic experts this book Addresses the state of the art in the design of semiconductor detectors integrated circuits and other electronics used in radiation detection Analyzes the main effects of radiation in semiconductor devices and circuits paying special attention to degradation observed in MOS devices and circuits when they are irradiated Explains how circuits are built to deal with radiation focusing on practical information about how they are being used rather than mathematical details Radiation detection is critical in space applications nuclear physics semiconductor processing and medical imaging as well as security drug development and modern silicon processing techniques The authors discuss new opportunities in these fields and address emerging detector technologies circuit design techniques new materials and innovative system approaches Aimed at postgraduate researchers and practicing engineers this book is a must for those serious about improving their understanding of electronics used in radiation detection The information presented here can help you make optimal use of electronic detection equipment and stimulate further interest in its development use and benefits

Radiation and Detectors Lucio Cerrito, 2017-05-11 This textbook provides an introduction to radiation the principles of interaction between radiation and matter and the exploitation of those principles in the design of modern radiation detectors Both radiation and detectors are given equal attention and their interplay is carefully laid out with few assumptions made about the prior knowledge of the student Part I is dedicated to radiation

broadly interpreted in terms of energy and type starting with an overview of particles and forces an extended review of common natural and man made sources of radiation and an introduction to particle accelerators Particular attention is paid to real life examples which place the types of radiation and their energy in context Dosimetry is presented from a modern user led point of view and relativistic kinematics is introduced to give the basic knowledge needed to handle the more formal aspects of radiation dynamics and interaction The explanation of the physics principles of interaction between radiation and matter is given significant space to allow a deeper understanding of the various technologies based on those principles Following an introduction to the ionisation mechanism detectors are introduced in Part II grouped according to the physical principle that underpins their functionality with chapters covering gaseous detectors semiconductor detectors the scintillation process and light detectors The final two chapters describe the phenomenology of showers and the design of calorimeters and cover additional phenomena including Cherenkov and transition radiation and the detection of neutrinos An appendix offers the reader a useful review of statistics and probability distributions The mathematical formalism is kept to a minimum throughout and simple derivations are presented to guide the reasoning and facilitate understanding of the working principles The book is unique in its wide scope and introductory level and is suitable for undergraduate and graduate students in physics and engineering The reader will acquire an awareness of how radiation and its exploitation are becoming increasingly relevant in the modern world with over 140 experimental figures detector schematics and photographs helping to relate the material to a broader research context

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 Sensors with 3D Electrodes Cinzia Da Vià, Gian-Franco Dalla Betta, Sherwood Parker, 2019-01-17

Written by the leading names in this field this book introduces the technical properties design and fabrication details measurement results and applications of three dimensional silicon radiation sensors Such devices are currently used in the ATLAS experiment at the European Centre for Particle Physics CERN for particle tracking in high energy physics These sensors are the radiation hardest devices ever fabricated and have applications in ground breaking research in neutron detection medical dosimetry and space technologies and more Chapters explore the essential features of silicon particle detectors interactions of radiation with matter radiation damage effects and micro fabrication in addition to a providing historical overview of the field This book will be a key reference for students and researchers working with sensor technologies

Features The first book dedicated to this unique and growing subject area which is also widely applicable in high energy physics medical physics space science and beyond Authored by Sherwood Parker the inventor of the concept of 3D detectors Cinzia Da Vi who has brought 3DSi technology to application and Gian Franco Dalla Betta a leading figure in the design and fabrication technology of these devices Explains to non experts the essential features of silicon particle detectors interactions of radiation with matter radiation damage effects and micro fabrication

The Enigmatic Realm of **Semiconductor Radiation Detectors Device Physics**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Semiconductor Radiation Detectors Device Physics** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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