



# Detectors For Particle Radiation

**Douglas McGregor, J. Kenneth Shultis**



## **Detectors For Particle Radiation:**

Detectors for Particle Radiation Konrad Kleinknecht, 1998-12-10 This textbook provides a clear concise and comprehensive review of the physical principles behind the devices used to detect charged particles and gamma rays and the construction and performance of these many different types of detectors Detectors for high energy particles and radiation are used in many areas of science especially particle physics and nuclear physics experiments nuclear medicine cosmic ray measurements space sciences and geological exploration This second edition includes all the latest developments in detector technology including several new chapters covering micro strip gas chambers silicion strip detectors and CCDs scintillating fibers shower detectors using noble liquid gases and compensating calorimeters for hadronic showers This well illustrated textbook contains examples from the many areas in science in which these detectors are used It provides both a coursebook for students in physics and a useful introduction for researchers in other fields

### **Detectors for Particle Radiation**

Konrad Kleinknecht, 1988-02 This book based on a course given by the author at the University of Dortmund for many years describes the physical principles used in devices for the detection of charged particles and gamma radiation and the construction and performance of particle detectors Detectors for particles and radiation are used in many fields of science including particularly particle physics and nuclear physics experiments nuclear medicine cosmic ray measurements space sciences and geological exploration After an introduction to the physical principles of detection the book describes in detail the many different types of detector and includes a discussion of the standard techniques as well as a description of recent developments The text is well illustrated with examples from the many fields in which these devices are employed and the level is sufficiently introductory that the book may be understood by readers from a variety of backgrounds

### **Detectors**

**for Particle Radiation: Volume 1 (Particle Physics Essentials)** Abdiel Baxter, 2023-09-26 Radiation is described as the particles or energies emitted through radioactive matter The most common types of radiations are gamma rays alpha particles X rays and beta particles Radiation detectors refer to those devices that detect and transmit information about incoming radiation They are useful in biology medicine physics and geology Generally radiation detectors are not capable of capturing radiated particles and they do not even observe the radiation itself The detectors search for the trails which radiation has left behind The objective behind the design of detectors is the creation of an environment where radiation signature can be easily written This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of detectors for particle radiation It will serve as a valuable source of reference for graduate and postgraduate students

### **Detectors for Particle Radiation: Volume 2 (Particle Physics Essentials)** Abdiel Baxter, 2023-09-26

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Baxter,2023-09-26 Radiation is described as the particles or energies emitted through radioactive matter The most common types of radiations are gamma rays alpha particles X rays and beta particles Radiation detectors refer to those devices that detect and transmit information about incoming radiation They are useful in biology medicine physics and geology Generally radiation detectors are not capable of capturing radiated particles and they do not even observe the radiation itself The detectors search for the trails which radiation has left behind The objective behind the design of detectors is the creation of an environment where radiation signature can be easily written This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of detectors for particle radiation It will serve as a valuable source of reference for graduate and postgraduate students

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Abdiel Baxter,2023-09-26 Radiation is described as the particles or energies emitted through radioactive matter The most common types of radiations are gamma rays alpha particles X rays and beta particles Radiation detectors refer to those devices that detect and transmit information about incoming radiation They are useful in biology medicine physics and geology Generally radiation detectors are not capable of capturing radiated particles and they do not even observe the radiation itself The detectors search for the trails which radiation has left behind The objective behind the design of detectors is the creation of an environment where radiation signature can be easily written This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of detectors for particle radiation It will serve as a valuable source of reference for graduate and postgraduate students

*Particle Physics Reference Library* Christian W. Fabjan,Herwig Schopper,2020-09-01 This second open access volume of the handbook series deals with detectors large experimental facilities and data handling both for accelerator and non accelerator based experiments It also covers applications in medicine and life sciences A joint CERN Springer initiative the Particle Physics Reference Library provides revised and updated contributions based on previously published material in the well known Landolt Boernstein series on particle physics accelerators and detectors volumes 21A B1 B2 C which took stock of the field approximately one decade ago Central to this new initiative is publication under full open access

**Detectors for Particles and Radiation H.**

Schopper,2011-01-21 Competent experts provide a summary of the enormous progress achieved in the development of new detection methods of charged and neutral particles and photons These achievements were initiated by the advent of new particle colliders e g the LHC at CERN but also by non accelerator experiments The present 2nd part of the handbook is

devoted to the integration of detectors in large experiments detectors for special applications as well as the application of detectors in other fields like e g medicine biology applied physics and industry

**Particle Detectors** Hermann Kolanoski, Norbert Wermes, 2020 Introduction Overview history and concepts Interactions of particles with matter Movement of charge carriers in electric and magnetic fields Signal formation by moving charges Non electronic detectors Gas filled detectors Semiconductor detectors Track reconstruction and momentum measurement Photodetectors Cherenkov detectors Transition radiation detectors Scintillation detectors Particle identification Calorimeters Detectors for cosmic particles neutrinos and exotic matter Signal processing readout and noise Trigger and data acquisition systems Appendix A Dosimetry and radioactive sources Appendix B Weighting potential of segmented electrodes Appendix C Diffusion effects in drift chambers Appendix D Ionisation statistics in drift chambers Appendix E Position resolution of structured electrodes Appendix F Fitting of track models Appendix G LPM effect Appendix H Laplace transform Appendix I Physical noise sources Bibliography Abbreviations Index

*Principles and Methods* H. Schopper, 2011-01-13 Competent experts provide a summary of the enormous progress achieved in the development of new detection methods of charged and neutral particles and photons These achievements were initiated by the advent of new particle colliders e g the LHC at CERN but also by non accelerator experiments Part 1 of Subvolume B reviews the interaction of particle radiation with matter and describes particle detectors like e g scintillation gaseous solid state time of flight Cerenkov transition radiation and neutrino detectors Calorimetry and nuclear emulsions are considered as well Finally signal processing for particle detectors data treatment and analysis methods including detector simulation high level data selection pattern recognition distributed computing and statistical issues are addressed

**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

**Handbook of Particle Detection and Imaging** Claus Grupen, Irène Buvat, 2011-10-29 The handbook centers on detection techniques in the field of particle physics medical imaging and related subjects It is structured into three parts The first one is dealing with basic ideas of particle detectors followed by applications of these devices in high energy physics and other fields In the last part the large field of medical imaging using similar detection techniques is described The different chapters of the book are written by world experts in their field Clear instructions on the detection techniques and principles in terms of relevant operation parameters for scientists and graduate students are given Detailed tables and diagrams will make this a very useful handbook for the application of these techniques in many different fields like physics medicine biology and other areas of natural science

Particle Detectors Claus Grupen, Boris Shwartz, 2023-07-27 This book is a reference on particle detectors for graduate students and researchers in particle physics

*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

*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

**The Particle Detector BriefBook** Rudolf K. Bock,Angela Vasilescu,2013-03-14 This BriefBook is a much extended glossary or a much condensed handbook depending on the way one looks at it It deals with detectors in particle and nuclear physics experiments The authors describe in encyclopedic format the physics the application and the analysis of data from these detectors Ample reference is made to the published literature An introduction for newcomers a reference for scientists

**The Physics of Particle Detectors** Dan Green,2000-08-15 This text provides a comprehensive introduction to the physical principles and design of particle detectors covering all major detector types in use today The book begins with a reprise of the size and energy scales involved in different physical processes It then considers non destructive methods including the photoelectric effect photomultipliers scintillators Cerenkov and transition radiation scattering and ionisation and the use of magnetic fields in drift and wire chambers A complete chapter is devoted to silicon detectors In the final part of the book the author discusses destructive measurement techniques including Thompson and Compton scattering Bremsstrahlung and calorimetry Throughout the book emphasis is placed on explaining the physical principles on which detection is based and showing by considering appropriate examples how those principles are best utilised in real detectors This approach also reveals the limitations that are intrinsic to different devices Exercises and detailed further reading lists are included

Gaseous Radiation Detectors Fabio Sauli,2014-06-12 Describes the fundamentals and applications of gaseous radiation detection ideal for researchers and experimentalists in nuclear and particle physics

**Introduction to Nuclear Radiation Detectors** P. Ouseph,2012-12-06 There have been many interesting developments in the field of nuclear radiation detectors especially in those using semiconducting materials The purpose of this book is to present a survey of the developments in semiconductor detectors along with discussions about gas counters and scintillation counters These discussions are directed to detector users usually scientists and technicians in different fields such as chemistry geology bio chemistry and medicine The operation of these detectors is discussed in terms of basic properties such as efficiency energy resolution and resolving time which are defined in the first chapter Differences among these detectors in terms of these properties are pointed out Chapter 2 on interaction of radiations with matter discusses how different radiations lose energies in matter and how differences in their behavior in matter affect the design and operation of detectors Although emphasis is placed on fundamentals throughout the book the reader is also made aware of the new developments in the field of radiation quite often detection

The author has taught a course in radioisotopes for several years for science engineering medical and dental students The emphasis on topics varied from time to time to satisfy the varying interests of the students However the contents of this book formed the core of the course About ten selected experiments on detectors were done along with this course a list of these vii Preface viii experiments may be supplied on request *Radiation Detectors* Cyril F. G. Delaney, E. C. Finch, 1992 From the pocket dosimeter and photographic emulsions to the superheated drop detector and the single particle calorimeter this text describes the wide range of sensing apparatus used for observing and measuring nuclear radiation Emphasis is placed on simple but thorough explanations of the underlying physics for each detector and on their applications Introductions to the types of radiation and their interaction with matter lead to descriptions of well established devices such as ionization chambers proportional and Geiger counters scintillation counters semiconductor detectors and other more recent innovations such as semiconductor drift chambers and dark matter detectors A separate chapter discusses sources of noise and their influence on the energy resolution achievable with different systems The book has been written by two physicists who have worked and taught in the field for many years It is intended for advanced undergraduates and graduate students as well as technicians and workers who use sources of ionizing radiation

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### **Detectors For Particle Radiation Introduction**

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