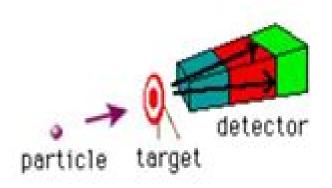
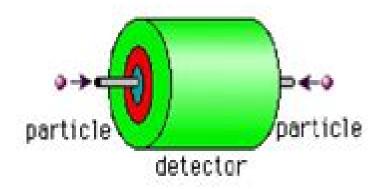
Detector Structure





Semiconductor Particle Detectors

Gerhard Lutz

Semiconductor Particle Detectors:

subject of radiation damage

Semiconductor Nuclear Particle Detectors J. W. T. Dabbs, F. J. Walter, 1961 **Semiconductor Particle Detectors** Charge Collection in Semiconductor Particle Detectors G. L. Miller, W. M. Gibson, 1961 James Murray Taylor, 1963 Semiconductor Nuclear-particle Detectors and Circuits Walter Lyons Brown, 1969 Semiconductor Detectors A. Semiconductor X-Ray Detectors B. G. Lowe, R. A. Sareen, 2013-12-07 Identifying and measuring the elemental x rays released when materials are examined with particles electrons protons alpha particles etc or photons x rays and gamma rays is still considered to be the primary analytical technique for routine and non destructive materials analysis The Lithium Drifted Silicon Si Li X Ray Detector with its good resolution and peak to background pioneered this type of analysis on electron microscopes x ray fluorescence instruments and radioactive source and accelerator based excitation systems Although rapid progress in Silicon Drift Detectors SDDs Charge Coupled Devices CCDs and Compound Semiconductor Detectors including renewed interest in alternative materials such as CdZnTe and diamond has made the Si Li X Ray Detector nearly obsolete the device serves as a useful benchmark and still is used in special instances where its large sensitive depth is essential Semiconductor X Ray Detectors focuses on the history and development of Si Li X Ray Detectors an important supplement to the knowledge now required to achieve full understanding of the workings of SDDs CCDs and Compound Semiconductor Detectors The book provides an up to date review of the principles practical applications and state of the art of semiconductor x ray detectors It describes many of the facets of x ray detection and measurement using semiconductors from manufacture to implementation The initial chapters present a self contained summary of relevant background physics materials science and engineering aspects Later chapters compare and contrast the assembly and physical properties of systems and materials currently employed enabling readers to fully understand the materials and scope for applications Charge Collection and Charge-collection Time in Semiconductor Particle Detectors Niels J. Hansen, 1966 **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

Semiconductor nuclear particle detectors,1961 <u>Silicon Solid State Devices And Radiation Detection</u> 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

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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 Semiconductor Nuclear Particle Detectors International Atomic Energy Particle Detectors Hermann Kolanoski, Norbert Wermes, 2020 Introduction Overview history and concepts Agency, 1962 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 Semiconductor nuclear particle detectors John W. Dabbs, 1961 Physics for Particle Detectors and Particle Detectors for Physics Philipp Windischhofer, 2023-08-31 Experimental particle physics is a science of many scales A large number of physical processes spanning energies from meV to TeV must be understood for modern collider experiments to be designed built and conducted successfully This thesis contributes to the understanding of phenomena across this entire dynamic range The first half of this document studies aspects of low energy physics that govern the operation of particle detectors limit their performance and guide the development of novel instrumentation To formalise these aspects classical electrodynamics is used to derive a general description of the formation of electrical signals in detectors and ideas from quantum mechanics are applied to the study of charge avalanche amplification in semiconductors These results lead to a comprehensive analytical characterisation of the time resolution and the efficiency of single photon avalanche diodes and isolate the most important design variables They also reveal the applicability of these devices in precision timing detectors for charged particles which is experimentally verified in a high energy hadron beam Large detector systems at hadron colliders probe fundamental physics at the energy frontier In the second half data collected with the ATLAS detector during Run 2 of the Large Hadron Collider are used to measure the cross section for the production of a Higgs boson together with an electroweak boson as a function of the kinematic scale of the process This measurement provides the finest granularity available to date for this process It is highly informative of the structure of interactions beyond the direct kinematic reach of the experiment and new limits are set on the couplings of such interactions within an effective field theory Semiconductor Nuclear-particle Detectors and Circuits Walter Lyons Brown, 1969 Index to the Literature of Semiconductor Detectors James M. McKenzie, 1969

Semiconductor Nuclear-particle Detectors and Circuits Walter Lyons Brown, 1967 **Nuclear Science Abstracts** ,1976 Measurement of Nuclear Radiation with Semiconductor Detectors D. N. Poenaru, N. Vilcov, 1969 CONTENTS MAIN NOTATIONS CONTENTS CHAPTER I INTERACTION OF THE NUCLEAR RADIATION WITH MATTER 1 1 Interaction of heavy charged particles with matter 1 2 Passage of electrons through matter 1 3 Interaction processes of gamma and X rays 1 4 Interaction processes of neutrons 1 5 Conclusions CHAPTER II FUNDAMENTAL PROCESSES IN SEMICONDUCTORS AND METALS 2.1 Schr dinger equation The particle inside the potential well 2.2 The hydrogen atom 2.3 Theory of the periodic system of elements 2 4 Electrons in crystals 2 5 Effective mass 2 6 Energy bands 2 7 Statistical distributions 2 8 Equilibrium density of charge carriers in semiconductors 2 9 Transport phenomena 2 10 Recombination phenomena 2 11 P N junction 2 12 Phenomena at the metal semiconductor interface CHAPTER III WORKING PRINCIPLES OF NUCLEAR RADIATION SEMICONDUCTOR DETECTORS 3 1 Charge carrier injection The mean energy for electron hole pair production 3 2 The drift of charge carriers in the electric field The shape of the current and voltage pulse given by the collection of a single pair 3 3 Collection time of electron hole pairs in a P N abrupt junction 3 4 Collection time of electron hole pairs in coaxial Ge Li detectors 3 5 Influence of SD equivalent circuit elements on the voltage and current pulse shape 3 6 Collection of charge carriers in real devices 3 7 Collection of electric charges by diffusion from outside the depletion layer 3 8 Detector noise 3 9 Detector energy resolution CHAPTER IV CHARACTERISTICS OF SEMICONDUCTOR DETECTORS 4 1 Electrical characteristics 4 2 Detection characteristics 4 3 Effects of temperature magnetic field and light on the semiconductor detector characteristics 4 4 Detector sensitivity to neutrons and gamma rays 4 5 Effects of radiation damage on detector characteristics CHAPTER V SEMICONDUCTOR DETECTOR TYPES 5 1 Methods for obtaining high electric fields in semiconductors 5 2 Homogeneous semiconductor detectors 5 3 Diffused N P junction detectors 5 4 Surface barrier detectors 5 5 Guard ring detectors 5 6 Totally depleted detectors 5 7 Neutron detectors 5 8 Special detectors 5 9 NIP detectors CHAPTER VI AMPLIFICATION OF SEMICONDUCTOR DETECTOR ELECTRIC PULSES 6 1 Electric charge to voltage pulse conversion 6.2 Charge sensitive preamplifier noise specification and measurement 6.S Amplifier noise sources 6.4 Effects of amplifier shaping circuits on noise spectra 6 5 RC RC amplifier signal to noise ratio CHAPTER VII SEMICONDUCTOR DETECTOR ASSOCIATED ELECTRONICS 7 1 Spectrometers with semiconductor detectors 7 2 Charge sensitive preamplifiers 7 3 Main amplifier 7 4 Amplitude analyser and expander 7 5 High amplitude stability pulse generator 7 6 Transistorized apparatus APPENDIX A I Basic properties of Si and Ge APPENDIX A II Main natural and artificial alpha sources APPENDIX A III Analysis of some circuits used in charge sensitive preamplifiers REFERENCES

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