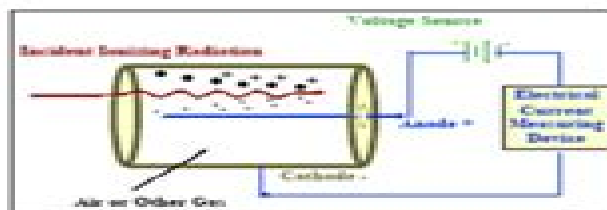


CHAPTER 10 - RADIATION DETECTION AND MEASUREMENT

The most widely used radiation detectors are devices that respond to ionizing radiation by producing electrical pulses. The pulses are generated by the imparting of energy to electrons by the ionizing particles in the sensitive volume of the counter.

There are two major modes of signal production. In one mode, the deposited energy serves to trigger an output electrical pulse of constant form every time an interaction occurs. The output pulse is constant regardless of the amount of energy deposited in the detector or the nature of the particle. The Geiger-Mueller counter exhibits this type of behavior.

In the other mode, the magnitude of the output pulse is proportional to the amount of energy deposited in the detector. Scintillation counters, gas proportional counters and semiconductor detectors exhibit this type of behavior.



In gas-filled detectors, the detector measures the electrical charge or current resulting from ionization of the gas by the radiation. Gas-filled detectors maintain an electric field within the gas. The field causes electrons and ions created by the incident radiation to migrate to their respective collecting electrodes.

As the electric field is increased, the freed electrons are accelerated and achieve sufficient kinetic energy to cause additional ionizations within the detector gas.

The electrons freed by these ionizations are accelerated by the field and cause additional ionizations. Thus, the initial ionizing event can lead to a cascade of ionizing events and free electrons. This phenomenon is known as a "Townshend avalanche" after its discoverer.

Under proper conditions, the number of secondary ionization events can be kept proportional to the number of primary ion pairs formed, but the total number of ions can be multiplied by a factor of many thousands.



If the applied voltage is sufficiently high, the space charge created by the positive ions becomes dominant in determining the subsequent history of the pulse.

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Frank H. Attix, Eugene Tochilin



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Special Sources of Information on Isotopes F. E. McKinney, 1968 Radioisotope Gauges for Industrial Process Measurements Geir Anton Johansen, Peter Jackson, 2004-10-22 In order to fully utilise nucleonic measurement principles and their applications it is important to have an understanding of the underlying physics Radioisotope Gauges for Industrial Process Measurements combines theoretical background with practical experience in order to present an accessible overview of the use of radioisotopes in industry This unique book explains the modes of operation of installed gauges and presents nucleonic methods relevant to measurement problems The first part of the book deals with radiation sources the interaction of radiation with matter and radiation detectors The second part explains the different measurement principles used for industrial gauges and the last part of the book covers industrial applications This book also Features a concise introduction to atomic and nuclear physics Presents a range of nucleonic measurement methods and highlights their application to a variety of problems Contains an overview of electronics measurement accuracy safety and standards Considers processes and demands design strategies and practical realisation of measurement systems Provides many practical engineering examples Offering a comprehensive coverage of engineering applications this book is an essential tool for electrical electronic and instrument engineers in the oil and chemicals processing sectors It is also a valuable reference to graduate students and physicists involved in nuclear radiation measurement medical applications radiochemical research environmental monitoring and chemical engineering **Applications of Radioisotopes to Measurements of Piston Ring Wear and Evaluations of Engine Oils** J.E. Brugger, 1962 Isotopes and Radiation Technology ,1970 **Special Sources of Information on Isotopes** U.S. Atomic Energy Commission. Division of Isotopes Development, U.S. Atomic Energy Commission, 1962 **Special Sources of Information on Isotopes** U.S. Atomic Energy Commission. Office of Isotopes Development, 1960 **TID.** ,1961 Experimental Determination of Neutron Energy Spectra in Concrete Ducts Leonard B. Gardner, Alan J. Mettler, Bernard Burdick, 1967 Neutron energy spectra were experimentally determined at various positions in air ducts through concrete The ducted concrete structures studied were built as model entrances for protective shelters The spectra were determined for the case of 14 Mev neutrons impinging on the duct entrance and were based on activation analysis of threshold foil detectors foil sandwiches and bare and cadmium covered indium foils The experimentally determined spectra were compared to available spectra calculated by Monte Carlo techniques utilizing the ADONIS computer code From the spectra the dose was calculated and the results were normalized to the dose in free air at one centimeter from the source The normalized dose as a function of distance in the duct from the source is graphically compared for the several analysis techniques The data presented demonstrate that it is possible to determine the neutron energy spectrum in ducts by the technique of foil activation Such determinations are useful during the experimental optimization of the protection factor for the duct in which the inclusion of doors traps liners and special wall materials are

considered The data presented herein form a basis for understanding the effect of duct geometry on the protection factor that is the inverse of the dose rate at various positions in the duct normalized to the dose rate at the entrance of the duct

Author **Measurement, Instrumentation, and Sensors Handbook, Second Edition** John G. Webster, Halit Eren, 2014-02-03 The Second Edition of the bestselling Measurement Instrumentation and Sensors Handbook brings together all aspects of the design and implementation of measurement instrumentation and sensors Reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes Organized according to measurement problem the Electromagnetic Optical Radiation Chemical and Biomedical Measurement volume of the Second Edition Contains contributions from field experts new chapters and updates to all 98 existing chapters Covers sensors and sensor technology time and frequency signal processing displays and recorders and optical medical biomedical health environmental electrical electromagnetic and chemical variables A concise and useful reference for engineers scientists academic faculty students designers managers and industry professionals involved in instrumentation and measurement research and development Measurement Instrumentation and Sensors Handbook Second Edition Electromagnetic Optical Radiation Chemical and Biomedical Measurement provides readers with a greater understanding of advanced applications

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