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the use of sensors in ionizing radiation detectors is in the early stages of development. such sensors could be used to measure specific constituents in the environment and these could be used in conjunction with special filter systems to measure the concentration of a specific radiation source. in addition to the detection of radioactive particles, the measurement of neutrons is also covered. further chapters cover the use of filters to attenuate unwanted radiation and the use of mechanical detection in nuclear instrumentation. as the basis for detection and measurement in the field of nuclear instrumentation, radiation detectors are used to measure the intensity of ionizing radiation in terms of its dose rate. this is the most common form of radiation exposure monitoring. the principles and applications of the most commonly used radiation detectors are discussed, along with their advantages and disadvantages. the scintillation detector is a very effective and widely used radiation detector used in nuclear, particle and medical physics applications. the scintillation detector uses the radioactive decay of atoms emitting light (usually in the ultraviolet) as the medium for ionizing radiation detection. the detection of the decay product is then used to establish the location of the radiation source. the scintillation detector is a widely used detector for energy of ionising radiation such as gamma rays, beta particles and neutrons. it is also used for measuring the energy of photons emitted from different sources in both the low and high energy ranges. scintillators are also used in medical imaging and baggage scanners. the scintillation detector is a much more sensitive detector for gamma and beta radiation than the phosphor screen.

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the use of ionising radiation is found in many applications including medical procedures, industry, research and homeland security. a radiation monitor is an instrument which detects ionising radiation and measures the intensity of the radiation. monitors are widely used in nuclear medicine, non-destructive testing, radiation therapy, industrial safety, military research and homeland security. the main goal of radiation detectors is to measure the dose of ionising radiation received by individuals or a population of individuals. the detectors are rated by the international organization for standardization (iso) and are labelled with the following symbols: two methods of measurement have been developed for relatively large samples of the radioactive material in the environment. the first method, called the alpha spectrometer, is a miniature alpha spectrometer. a small sample of the radioactive material is mixed with a known amount of a nonradioactive material, such as graphite. the mixture is then placed in a glove box and the alpha particles produced by the radioactive material are counted using the alpha spectrometer. this book presents radiation detection and measurement with emphasis on the instrumentation required for radiochemical analysis. the first chapter addresses the basic principles of radiation detection and measurement and describes the design, operation, and calibration of the most important detection and spectroscopic instruments used in the analysis of radioactive isotopes. this book is intended as an introduction to the theory of the detection and spectroscopy of ionizing radiation. the third chapter describes the fundamentals of radiation detection, with emphasis on the characteristics of the instruments used for this purpose. the chapter discusses the principles of radioactivity, the origins of radioactivity, and the properties of radiations, but some aspects of counting theory are also included. 5ec8ef588b

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