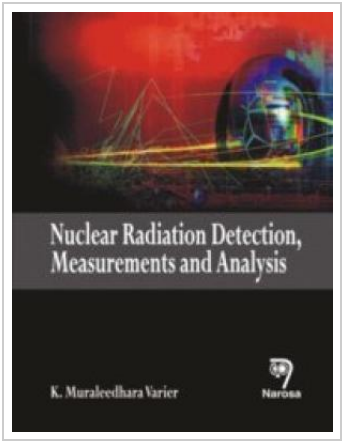

Nuclear Radiation Detection, Measurements and Analysis

By K. Muraleedhara Varier

Narosa Publishing House, 2009. Hardcover. Book Condition: New. Nuclear Radiation Detection, Measurements and Analysis covers various aspects of interactions of nuclear radiations like gamma and X-rays, charged particles like electrons, protons, alpha particles and other heavy ions and neutrons. The important types of detectors for these radiations are described with reference to the principle of operation, structure, working, key features etc. Different types of electronic modules which are helpful in processing and analysing the output pulses from such detectors are also described. The various techniques used for acquiring experimental data using the detectors and the associated electronic modules as well as for analysing the acquired data are discussed at length. Some specialized detector configurations and special techniques are also elaborated. Simple and informative illustrations help in understanding the various concepts presented in the text. Table of Contents Preface / Introduction to Nuclear Radiation Detectors / Interactions of Photons with Matter / Interactions of Charged Particles with Matter / Neutron Interactions with Matter / Gas Detectors / Scintillation Detectors / Semiconductor Detectors / Neutron Detectors / Electronics and Techniques for Data Acquisition and Analysis / Coincidence Techniques / Solid State Nuclear Track Detectors / Special Detector Configurations / Special Techniques /...

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