



## Analog Electronics for Radiation Detection (Paperback)

By -

Taylor Francis Ltd, United Kingdom, 2018. Paperback. Condition: New. Reprint. Language: English . Brand New Book. Analog Electronics for Radiation Detection showcases the latest advances in readout electronics for particle, or radiation, detectors. Featuring chapters written by international experts in their respective fields, this authoritative text: Defines the main design parameters of front-end circuitry developed in microelectronics technologiesExplains the basis for the use of complementary metal-oxide semiconductor (CMOS) image sensors for the detection of charged particles and other non-consumer applicationsDelivers an in-depth review of analog-to-digital converters (ADCs), evaluating the pros and cons of ADCs integrated at the pixel, column, and per-chip levelsDescribes incremental sigma-delta ADCs, time-to-digital converter (TDC) architectures, and digital pulse-processing techniques complementary to analog processingExamines the fundamental parameters and front-end types associated with silicon photomultipliers used for single visible-light photon detectionDiscusses pixel sensors with per-pixel TDCs, channel density challenges, and emerging 3D technologies interconnecting detectors and electronics Thus, Analog Electronics for Radiation Detection provides a single source for state-of-the-art information on analog electronics for the readout of radiation detectors.



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