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One of the first comprehensive works on room-temperature nuclear detectors.

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Temperature Nuclear Detector ...

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Semiconductors for Room Temperature Nuclear Detector Applications. Edited by T.E. Schlesinger, Ralph B. James. Volume

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Semiconductors for Room Temperature Nuclear Detector ...

Why are room temperature

semiconductor detectors (RTSDs) important? Most commercially available and deployed radiation detectors that provide a spectral response are based on either semiconductor or scintillation detection technology, with polyvinyltoluene (PVT), NaI:Tl, CsI:Tl, LaBr 3 :Ce, CeBr 3 , CsLiYCl:Ce (CLYC), Bi 4 Ge 3 O 12 (BGO), Si, Ge, and CdTe-

based compounds serving as the most common sensor materials. 4 4.

Room temperature semiconductor detectors for nuclear ...

Semiconductors for Room Temperature Nuclear Detector Applications SEMICONDUCTORS AND SEMIMETALS Volume 43 Volume Editors T. E.

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Semiconductors for Room Temperature Nuclear Detector ...

Silicon is mainly used for charged particle detectors (especially for tracking charged particles) and soft X-ray detectors. The large band-gap energy (Egap= 1.12 eV) allows us to operate the detector at room temperature, but cooling is prefered to reduce noise.

Silicon based detectors are very important in high-energy physics.

Types of Semiconductors - Nuclear Power

However, there has been a continuing desire for the development of room temperature detectors with compact structure having the portability and

convenience of a scintillator but with a significant improvement in energy resolution. To this end, numerous high-Z and wide band gap compound semiconductors have been exploited. In particular, among the compound semiconductors, cadmium telluride (CdTe) and cadmium zinc telluride (CdZnTe) have been considered very

appealing for hard x-ray detectors ...

Semiconductor Detector - an overview | ScienceDirect Topics

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A requirement for solving the challenge is developing radiation detectors that

are efficient, sensitive, and practical. Room temperature semiconductor detectors (RTSDs) are an important class of gamma-ray sensors because they can generate high-resolution gamma-ray spectra at ambient operating temperatures.

Room temperature semiconductor

detectors for nuclear ...

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Semiconductors for room temperature nuclear detector ...

A room-temperature superconductor is a material that is capable of exhibiting superconductivity at operating temperatures above 0 °C, that is, temperatures that can be reached and easily maintained in an everyday

environment. As of 2020 the material with the highest accepted superconducting temperature is an extremely pressurized carbonaceous sulfur hydride with a critical transition temperature of +15°C at 267 GPa. At atmospheric pressure the temperature record is still held by cuprates ...

Room-temperature superconductor - Wikipedia

Silicon-based Semiconductor Detectors. Silicon-based semiconductor detectors are mainly used for charged particle detectors (especially for tracking charged particles) and soft X-ray detectors while germanium is widely used for gamma ray spectroscopy.A

large, clean and almost perfect semiconductor is ideal as a counter for radioactivity.However, it is difficult to make large crystals with ...

Silicon as Semiconductor - Nuclear Power

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