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Pixel Detectors From Fundamentals To

Pixel detectors are a particularly important class of particle and radiation detection devices. They have an extremely broad spectrum of applications, ranging from high-energy physics to the photo cameras of everyday life. This book is a general purpose introduction into the fundamental principles of pixel detector technology and semiconductor-based hybrid pixel devices.

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Pixel detectors : from fundamentals to applications (eBook ...

This book is a general purpose introduction into the fundamental principles of pixel detector technology and semiconductor-based hybrid pixel devices. Although these devices were developed for high-energy ionizing particles and radiation beyond visible light, they are finding new applications in many other areas.

Pixel detectors - CERN Document Server

The notion of pixel (short for "picture element") has been introduced in image processing to describe the smallest discernable element in a given process or device. A pixel detector is therefore a device able to detect an image and the size of the pixel corresponds to the granularity of the image.

Pixel Detectors - INFN Genova

L. Rossi, P. Fischer, T. Rohe and N. Wermes 2006 Pixel detectors from fundamentals to applications, Springer Verlag, U.S.A. [2] X. Llopart et al. 2001 MediPix2, a 64k pixel readout with 55µm square elements working in single photon counting mode, IEEE Trans. Nucl. Sci. 49 2279

Semiconductor Pixel detectors and their applications in ...

Hybrid pixel detectors are a type of ionizing radiation detector consisting of an array of diodes based on semiconductor technology and their associated electronics. The term "hybrid" stems from the fact that the two main elements from which these devices are built, the semiconductor sensor and the readout chip (also known as application-specific integrated circuit or ASIC), are ...

Hybrid pixel detector - Wikipedia

Pixel Design for Digital Detectors Digital detectors require an array of pixels that collect electronic signals. The signals on these pixels are transferred to a computer during a readout sequence. This is known as direct readout, a function of all digital systems, and should not be confused with direct-conversion digital detection.

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Pixel detectors : from fundamentals to applications (Book ...

1. Introduction. Pixel detectors have entered particle physics experiments in the early nineties, first with small scale devices, and soon after with developments of detectors with $\sim 10^8$ pixels for the LHC experiments (see e.g.). Despite early approaches with monolithic devices, so-called hybrid pixels in which pixel sensor and readout chip are separated entities, mated by employing ...

Pixel detectors ... where do we stand? - ScienceDirect

Large-area CdTe pixel detectors for high-energy X-ray applications D. Šišak Jung, T. Donath, J. Bednarcik, M. di Michael, S. Jacques PPXRD-14, Fort Myers, Florida, 6.06.-9.06.2016. This document was presented at PPXRD - Pharmaceutical Powder X-ray Diffraction Symposium

Large-area CdTe pixel detectors for high-energy X-ray ...

We present a concept to improve the spatial resolution of silicon pixel-detectors via the implementation of a sub-pixel cross-coupling, which introduces directional charge sharing between pixels. The charge-collection electrode is segmented into sub-pixels and each sub-pixel is coupled to the closest sub-pixel of the neighboring pixel.

Improving the spatial resolution of silicon pixel ...

Fig. 4 MoS₂ pixel detector power spectral density. Noise power spectra of PL for three sizes of MoS₂ redox detectors. The left axis shows photons detected squared per hertz, and the right axis is converted to voltage via a MoS₂ gate curve. All curves are taken at 10-ms exposure times.

MoS₂ pixel arrays for real-time photoluminescence imaging ...

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Gaseous Radiation Detectors by Fabio Sauli

Silicon strip detectors 5 x 5 cm² in area are quite common and are used in series (just like planes of MWPCs) to determine charged-particle trajectories to position-accuracies of the order of several μm in the transverse direction. Placed on a low doped fully depleted silicon wafer these implants form a one-dimensional array of diodes.

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