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High Performance Silicon Imaging: Fundamentals and ...

High Performance Silicon Imaging covers the fundamentals of silicon image sensors, with a focus on existing performance issues and potential solutions. The book considers several applications for the technology as well. Silicon imaging is a fast growing area of the semiconductor industry.

High Performance Silicon Imaging: Fundamentals and ...

High Performance Silicon Imaging Fundamentals and Applications of CMOS and CCD Sensors Edited by Daniel Durini ELSEVIER AMSTERDAM • BOSTON • CAMBRIDGE HEIDELBERG LONDON NEWYORK • OXFORD • PARIS SAN DIEGO SAN FRANCISCO • SINGAPORE • SYDNEY TOKYO Woodhead Publishing is an imprint of Elsevier WP WOODHEAD PUBLISHING

High Performance Silicon Imaging [Book]

Fundamentals of Silicon Photonic Devices B. Thomas Smith, Dazeng Feng, Hongbing Lei, ... the imaging element in digital cameras. In some commercial cameras, the wavelength response of silicon has ... Light is confined to the silicon material by a top and bottom cladding of silicon dioxide. The high index contrast between silicon at 3.47 and ...

High Performance Silicon Imaging (2nd ed.) by Daniel ...

High Performance Silicon Imaging: Fundamentals and Applications of CMOS and CCD sensors, Second Edition covers the fundamentals of silicon image sensors, addressing existing performance issues and current and emerging solutions. Silicon imaging is a fast growing area of the semiconductor industry.

High performance silicon imaging : fundamentals and ...

These challenges include better image quality, higher sensitivity, higher data-transfer rate, higher system-level integration, lower power consumption, and 3-D imaging. The editor and expert contributors cover the fundamentals of silicon-based image sensors and technical advances, focusing on performance issues in part one.

9780857095985: High Performance Silicon Imaging ...

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High performance silicon imaging : fundamentals and ...

High performance silicon imaging covers the fundamentals of silicon image sensors, with a focus on existing performance issues and potential solutions. It then considers several applications for the technology. Part one begins with a review of the fundamental principles of photosensing and the operational principles of silicon image sensors.

High Performance Silicon Imaging - 1st Edition

High Performance Silicon Imaging covers the fundamentals of silicon image sensors, with a focus on existing performance issues and potential solutions. The book considers several applications for the technology as well. Silicon imaging is a fast growing area of the semiconductor industry.

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Fundamentals of Silicon Photonic Devices

High performance silicon imaging : fundamentals and applications of CMOS and CCD sensors. [Daniel Durini;] ... (CMOS) and charge coupled device (CCD) image sensors in high-definition TV imaging 15. High-performance silicon imagers, back illumination using delta and superlattice doping, and their applications in astrophysics, medicine, and other ...

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High Performance Silicon Imaging Fundamentals

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