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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 ...

Fundamentals of Silicon Photonic Devices

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High Performance Silicon Imaging [Book]

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High Performance Silicon Imaging Fundamentals

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.

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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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