



# Essential Principles of Image Sensors

*Takao Kuroda*

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## Essential Principles of Image Sensors Takao Kuroda

Providing a succinct introduction to the systemization, noise sources, and signal processes of image sensor technology, **Essential Principles of Image Sensors** discusses image information and its four factors: space, light intensity, wavelength, and time. Featuring clarifying and insightful illustrations, this must-have text:

- Explains how image sensors convert optical image information into image signals
- Treats space, wavelength, and time as digitized built-in coordinate points in image sensors and systems
- Details the operational principles, pixel technology, and evolution of CCD, MOS, and CMOS sensors with updated technology
- Describes sampling theory, presenting unique figures demonstrating the importance of phase
- Explores causes for the decline of image information quality

In a straightforward manner suitable for beginners and experts alike, **Essential Principles of Image Sensors** covers key topics related to digital imaging including semiconductor physics, component elements necessary for image sensors, silicon as a sensitive material, noises in sensors, and more.

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