Smart CMOS Image Sensors and Applications (Optical Science and Engineering)

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Because of their high noise immunity and low static power supply drain, complementary metal-oxide-semiconductor (CMOS) devices produce less heat than other forms of logic and allow a high density of logic functions on a chip. These beneficial characteristics have fueled the use of CMOS image sensors in consumer electronics, robot vision, biotechnology, and medicine. With the introduction of smart functions in CMOS image sensors, even more versatile applications are now possible.

Exploring this popular technology, **Smart CMOS Image Sensors and Applications** focuses on the smart functions implemented in CMOS image sensors as well as the applications of these sensors. After discussing the history of smart CMOS image sensors, the book describes the fundamental elements of CMOS image sensors. It covers some optoelectronic device physics and introduces typical CMOS image sensor structures, such as an active pixel sensor (APS). Subsequent chapters elucidate the functions and materials of smart CMOS image sensors and present examples of smart imaging. The final chapter explores various applications of smart CMOS image sensors. Several appendices supply a range of information on constants, illuminance, MOSFET characteristics, and optical resolution.

This book provides a firm foundation in existing smart CMOS image sensor technology and applications, preparing you for the next phase of smart CMOS image sensors.

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