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Shrinking pixel sizes along with improvements in image sensors, optics, and electronics have elevated DSCs to levels of performance that match, and have the potential to surpass, that of silver-halide film cameras. *Image Sensors and Signal Processing for Digital Still Cameras* captures the current state of DSC image acquisition and signal processing technology and takes an all-inclusive look at the field, from the history of DSCs to future possibilities. The first chapter outlines the evolution of DSCs, their basic structure, and their major application classes. The next few chapters discuss high-quality optics that meet the requirements of better image sensors, the basic functions and performance parameters of image sensors, and detailed discussions of both CCD and CMOS image sensors. The book then discusses how color theory affects the uses of DSCs, presents basic image processing and camera control algorithms and examples of advanced image processing algorithms, explores the architecture and required performance of signal processing engines, and explains how to evaluate image quality for each component described. The book closes with a look at future technologies and the challenges that must be overcome to realize them. With contributions from many active DSC experts, *Image Sensors and Image Processing for Digital Still Cameras* offers unparalleled real-world coverage and opens wide the door for future innovation.

As the deep-ultraviolet (DUV) laser technology continues to mature, an increasing number of industrial and manufacturing applications are emerging. For example, the new generation of semiconductor inspection systems is being pushed to image at increasingly shorter DUV wavelengths to facilitate inspection of deep sub-micron features in integrated circuits. DUV-sensitive charge-coupled device (CCD) cameras are in demand for these applications. Although CCD cameras that are responsive at DUV wavelengths are now available, their long-term stability is still a major concern. This book describes the degradation mechanisms and long-term performance of CCDs in the DUV, along with new results of device performance at these wavelengths.

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Explains the circuit design of silicon optoelectronic integrated circuits (OEICs), which are central to advances in wireless and wired telecommunications. The essential features of optical absorption are summarized, as is the device physics of photodetectors and their integration in modern bipolar, CMOS, and BiCMOS technologies. This information provides the basis for understanding the underlying mechanisms of the OEICs described in the main part of the book. In order to cover the topic comprehensively, Silicon Optoelectronic Integrated Circuits presents detailed descriptions of many OEICs for a wide variety of applications from various optical sensors, smart sensors, 3D-cameras, and optical storage systems (DVD) to fiber receivers in deep-sub- μ m CMOS. Numerous detailed illustrations help to elucidate the material.

Not a design book, but an source of information on the features and specifications most often reported in data sheets on charge-coupled devices, which are used in high-definition television for program production, consumer camcorders, electronic still cameras, optical character readers including bar-code scanners and fax machines, and other applications. When the 1996 edition sold out, it was decided to update and correct rather than reprint. A major change is that the term CCD array has been changed in most of the text to solid state array to allow for flexibility in sensor type. Annotation copyrighted by Book News, Inc., Portland, OR.

Shrinking pixel sizes along with improvements in image sensors, optics, and electronics have elevated DSCs to levels of performance that match, and have the potential to surpass, that of silver-halide film cameras. Image Sensors and Signal Processing for Digital Still Cameras captures the current state of DSC image acquisition and signal processing technology and takes an all-inclusive look at the field, from the history of DSCs to future possibilities. The first chapter outlines the evolution of DSCs, their basic structure, and their major application classes. The next few chapters discuss high-quality optics that meet the requirements of better image sensors, the basic functions and performance parameters of image sensors, and detailed discussions of both CCD and CMOS image sensors. The book then discusses how color theory affects the uses of DSCs, presents basic image processing and camera control algorithms and examples of advanced image processing algorithms, explores the architecture and required performance of signal processing engines, and explains how to evaluate image quality for each component described. The book closes with a look at future technologies and the challenges that must be overcome to realize them. With contributions from many active DSC experts, Image Sensors and Image Processing for Digital Still Cameras offers unparalleled real-world coverage and opens wide the door for future innovation.

Imaging systems that employ CCD and CMOS sensors are now almost universal for certain scientific, medical, and consumer electronic purposes. This volume covers CCD and CMOS technological development, including approaches to overcoming the technology's intrinsic physical limitations.

Praise for the First Edition . . . "A unique piece of work, a book for electronics engineering, ingeneral, but well suited and excellently

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applicable also to biomedical engineering . . . I recommend it with no reservation, congratulating the authors for the job performed." -IEEE Engineering in Medicine & Biology "Describes a broad range of sensors in practical use and some circuit designs; copious information about electronic components is supplied, a matter of great value to electronic engineers. A large number of applications are supplied for each type of sensor described . . . This volume is of considerable importance." -Robotica In this new edition of their successful book, renowned authorities Ramon Pallàs-Areny and John Webster bring you up to speed on the latest advances in sensor technology, addressing both the explosive growth in the use of microsensors and improvements made in classical macrosensors. They continue to offer the only combined treatment for both sensors and the signal-conditioning circuits associated with them, following the discussion of a given sensor and its applications with signal-conditioning methods for this type of sensor. New and expanded coverage includes: * New sections on sensor materials and microsensor technology * Basic measurement methods and primary sensors for common physical quantities * A wide range of new sensors, from magnetoresistive sensors and SQUIDs to biosensors * The widely used velocity sensors, fiber-optic sensors, and chemical sensors * Variable CMOS oscillators and other digital and intelligent sensors * 68 worked-out examples and 103 end-of-chapter problems with annotated solutions

The book covers the entire topic from the basics of optoelectronics, device physics of photodetectors and light emitters, simulation of photodetectors, and technological aspects of optoelectronic integration in microelectronics to circuit aspects and practical applications. It summarizes the state of the art in integrated silicon optoelectronics and reviews recent publications on this topic. Results of basic research on silicon light emitters are included as well, while published results are compared with each other and with the work of the author.

Winner, 2013 PROSE Award, Engineering and Technology Concise, high quality and comparative overview of state-of-the-art electron device development, manufacturing technologies and applications Guide to State-of-the-Art Electron Devices marks the 60th anniversary of the IRE electron devices committee and the 35th anniversary of the IEEE Electron Devices Society, as such it defines the state-of-the-art of electron devices, as well as future directions across the entire field. Spans full range of electron device types such as photovoltaic devices, semiconductor manufacturing and VLSI technology and circuits, covered by IEEE Electron and Devices Society Contributed by internationally respected members of the electron devices community A timely desk reference with fully-integrated colour and a unique layout with sidebars to highlight the key terms Discusses the historical developments and speculates on future trends to give a more rounded picture of the topics covered A valuable resource R&D managers; engineers in the semiconductor industry; applied scientists; circuit designers; Masters students in power electronics; and members of the IEEE Electron Device Society.

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