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“Optical Devices in Ophthalmology and Optometry is a timely, highly readable, and beautifully illustrated text that fulfills the need to bridge technical and clinical optics.

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Optical Devices in Ophthalmology and Optometry: Technology, Design Principles and Clinical Applications Michael Kaschke, Karl-Heinz Donnerhacke, and Michael Stefan Rill, 619 pages, ISBN: 978-3-527-41068-2, Wiley-VCH, Weinheim (2014) US\$190.00, hardcover. Reviewed by Barry R. Masters, Fellow of AAAS, OSA, and SPIE Optical Devices in Ophthalmology and

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Optical Devices in Ophthalmology and Optometry is a highly recommended textbook that explains the physical principles of optics, photonics, metrology, and lasers, and proceeds with the design principles and instrument construction of medical devices that are most often used in diagnosis and treatment. The textbook is based on the lectures that two of the authors taught to graduate students with backgrounds in physics, electrical, and mechanical engineering.

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Book Review: Optical Devices in Ophthalmology and ...

"Optical Devices in Ophthalmology and Optometry is a timely, highly readable, and beautifully illustrated text that fulfills the need to bridge technical and clinical optics. In whole or part, it is an invaluable reference or basic text for Optometry, Ophthalmology, and Vision Science." (Optometry & Vision Science, 1 May 2015)

Optical Devices in Ophthalmology and Optometry Medical technology is a fast growing field. Optical Devices in Ophthalmology and Optometry gives a comprehensive review of modern optical technologies in ophthalmology and optometry alongside their clinical deployment. It bridges the technology and clinical domains and will be suitable in both technical and clinical environments. The book introduces and develops basic physical methods (in optics, photonics, and metrology) and their applications in the design of optical systems for use in ophthalmic medical technology. Medical applications described in detail demonstrate the advantage of utilizing optical-photonics methods. Exercises and solutions for each chapter help understand and apply basic principles and methods. From the contents: Structure and Function of the Human Eye Optics of the Human Eye Visual Disorders and Major Eye Diseases Introduction to Ophthalmic Diagnosis and Imaging Determination of the Refractive Status of the Eye Optical Visualization, Imaging, and Structural Analysis Optical Coherence Methods for Three-Dimensional Visualization and Structural Analysis Functional Diagnostics Laser-Tissue Interaction Laser Systems for Treatment of Eye Diseases and Refractive Errors

As the state-of-the-art imaging technologies became more and more advanced, yielding scientific data at unprecedented detail and volume, the need to process and interpret all the data has made image processing and computer vision increasingly important.

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Sources of data that have to be routinely dealt with today's applications include video transmission, wireless communication, automatic fingerprint processing, massive databanks, non-weary and accurate automatic airport screening, robust night vision, just to name a few. Multidisciplinary inputs from other disciplines such as physics, computational neuroscience, cognitive science, mathematics, and biology will have a fundamental impact in the progress of imaging and vision sciences. One of the advantages of the study of biological organisms is to devise very different type of computational paradigms by implementing a neural network with a high degree of local connectivity. This is a comprehensive and rigorous reference in the area of biologically motivated vision sensors. The study of biologically visual systems can be considered as a two way avenue. On the one hand, biological organisms can provide a source of inspiration for new computational efficient and robust vision models and on the other hand machine vision approaches can provide new insights for understanding biological visual systems. Along the different chapters, this book covers a wide range of topics from fundamental to more specialized topics, including visual analysis based on a computational level, hardware implementation, and the design of new more advanced vision sensors. The last two sections of the book provide an overview of a few representative applications and current state of the art of the research in this area. This makes it a valuable book for graduate, Master, PhD students and also researchers in the field.

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. Its use in cell phone cameras is already well established, with emerging applications including web, security, automotive and digital cinema cameras. The book has been revised to reflect the latest state-of-the

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art developments in the field, including 3D imaging, advances in achieving lower signal noise, and new applications for consumer markets. The fundamentals section has also been expanded to include a chapter on the characterization and testing of CMOS and CCD sensors that is crucial to the success of new applications. This book is an excellent resource for both academics and engineers working in the optics, photonics, semiconductor and electronics industries. Covers the fundamentals of silicon-based image sensors and technical advances, focusing on performance issues Looks at image sensors in applications, such as mobile phones, scientific imaging, and TV broadcasting, and in automotive, consumer and biomedical applications Addresses the theory behind 3D imaging and 3D sensor development, including challenges and opportunities

Leading experts present the latest technology and applications in adaptive optics for vision science Featuring contributions from the foremost researchers in the field, Adaptive Optics for Vision Science is the first book devoted entirely to providing the fundamentals of adaptive optics along with its practical applications in vision science. The material for this book stems from collaborations fostered by the Center for Adaptive Optics, a consortium of more than thirty universities, government laboratories, and corporations. Although the book is written primarily for researchers in vision science and ophthalmology, the field of adaptive optics has

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strongroots in astronomy. Researchers in both fields share this technology and, for this reason, the book includes chapters by both astronomers and vision scientists. Following the introduction, chapters are divided into the following sections: * Wavefront Measurement and Correction * Retinal Imaging Applications * Vision Correction Applications * Design Examples Readers will discover the remarkable proliferation of new applications of wavefront-related technologies developed for the human eye. For example, the book explores how wavefront sensors offer the promise of a new generation of vision correction methods that can deal with higher order aberrations beyond defocus and astigmatism, and how adaptive optics can produce images of the living retina with unprecedented resolution. An appendix includes the Optical Society of America's Standards for Reporting Optical Aberrations. A glossary of terms and a symbol table are also included. Adaptive Optics for Vision Science arms engineers, scientists, clinicians, and students with the basic concepts, engineering tools, and techniques needed to master adaptive optics applications in vision science and ophthalmology. Moreover, readers will discover the latest thinking and findings from the leading innovators in the field.

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