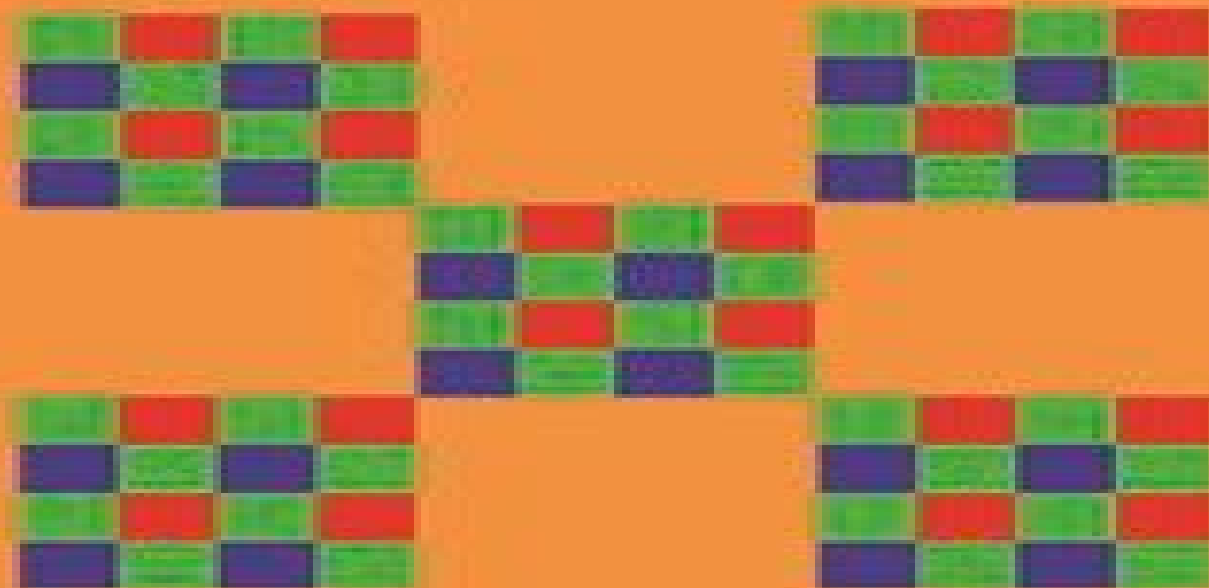


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second edition



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Optical Payloads for Space Missions Shen-En Qian, 2016-01-26 Optical Payloads for Space Missions is a comprehensive collection of optical spacecraft payloads with contributions by leading international rocket scientists and instrument builders. Covers various applications including earth observation, communications, navigation, weather, and science satellites, and deep space exploration. Each chapter covers one or more specific optical payload. Contains a review chapter which provides readers with an overview on the background, current status, trends, and future prospects of the optical payloads. Provides information on the principles of the optical spacecraft payloads, missions, background, motivation, and challenges, as well as the scientific returns, benefits, and applications.

Infrared and Terahertz Detectors, Third Edition Antoni Rogalski, 2019-01-10 This new edition of Infrared and Terahertz Detectors provides a comprehensive overview of infrared and terahertz detector technology from fundamental science to materials and fabrication techniques. It contains a complete overhaul of the contents, including several new chapters and a new section on terahertz detectors and systems. It includes a new tutorial introduction to technical aspects that are fundamental for basic understanding. The other dedicated sections focus on thermal detectors, photon detectors, and focal plane arrays.

2D Materials for Infrared and Terahertz Detectors Antoni Rogalski, 2020-10-25 2D Materials for Infrared and Terahertz Detectors provides an overview of the performance of emerging detector materials while also offering, for the first time, a comparison with traditional materials used in the fabrication of infrared and terahertz detectors. Since the

discovery of graphene its applications to electronic and optoelectronic devices have been intensively researched The extraordinary electronic and optical properties allow graphene and other 2D materials to be promising candidates for infrared IR and terahertz THz photodetectors and yet it appears that the development of new detectors using these materials is still secondary to those using traditional materials This book explores this phenomenon as well as the advantages and disadvantages of using 2D materials Special attention is directed toward the identification of the most effective hybrid 2D materials in infrared and terahertz detectors as well as future trends Written by one of the world s leading researchers in the field of IR optoelectronics this book will be a must read for researchers and graduate students in photodetectors and related fields Features Offers a comprehensive overview of the different types of 2D materials used in fabrication of IR and THz detectors and includes their advantages disadvantages The first book to compare new detectors to a wide family of common commercially available detectors that use traditional materials

Machine Vision Jürgen Beyerer, Fernando Puente León, Christian Frese, 2015-10-01 The book offers a thorough introduction to machine vision It is organized in two parts The first part covers the image acquisition which is the crucial component of most automated visual inspection systems All important methods are described in great detail and are presented with a reasoned structure The second part deals with the modeling and processing of image signals and pays particular regard to methods which are relevant for automated visual inspection

Sensors and Camera Systems for Scientific, Industrial, and Digital Photography Applications Morley M. Blouke, 2000

High Performance Silicon Imaging Daniel Durini, 2019-10-19 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 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

Electro-optical Imaging System Performance Gerald C. Holst, 2008

Handbook of Optics Third Edition, 5 Volume Set Optical Society of America, 2010-05-18 The most comprehensive and up to date optics resource available Prepared under the auspices of the Optical Society of America the five carefully architected and cross referenced volumes of the Handbook of Optics Third

Edition contain everything a student scientist or engineer requires to actively work in the field From the design of complex optical systems to world class research and development methods this definitive publication provides unparalleled access to the fundamentals of the discipline and its greatest minds Individual chapters are written by the world s most renowned experts who explain illustrate and solve the entire field of optics Each volume contains a complete chapter listing for the entire Handbook extensive chapter glossaries and a wealth of references This pioneering work offers unprecedented coverage of optics data techniques and applications Volume I covers geometrical and physical optics polarized light components and instruments Volume II covers design fabrications testing sources detectors radiometry and photometry Volume III all in full color covers vision and vision optics Volume IV covers optical properties of materials nonlinear optics and quantum optics Volume V covers atmospheric optics modulators fiber optics and x ray and neutron optics Visit [www HandbookofOpticsOnline com](http://www.HandbookofOpticsOnline.com) to search all five volumes and download a comprehensive index

Journal of the Optical Society of America ,2003 *Handbook of Optics, Third Edition Volume I: Geometrical and Physical Optics, Polarized Light, Components and Instruments(set)* Michael Bass,Casimer DeCusatis,Jay M. Enoch,Vasudevan Lakshminarayanan,Guifang Li,Carolyn MacDonald,Virendra N. Mahajan,Eric Van Stryland,2009-10-06 The most comprehensive and up to date optics resource available Prepared under the auspices of the Optical Society of America the five carefully architected and cross referenced volumes of the Handbook of Optics Third Edition contain everything a student scientist or engineer requires to actively work in the field From the design of complex optical systems to world class research and development methods this definitive publication provides unparalleled access to the fundamentals of the discipline and its greatest minds Individual chapters are written by the world s most renowned experts who explain illustrate and solve the entire field of optics Each volume contains a complete chapter listing for the entire Handbook extensive chapter glossaries and a wealth of references This pioneering work offers unprecedented coverage of optics data techniques and applications Volume I covers geometrical and physical optics polarized light components and instruments

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[Applications: Sensors and imaging](#) Bernd Jähne,Horst Haussecker,Peter Geissler,1999 CD ROM files contain complete text of all three print vols as well as hyperlinks to figures tables etc and between the index and the text Also included are hyperlinks to movies interactive 3 D models demonstration software and other materials not contained in the print version

[Proceedings of IEEE Sensors ...](#) ,2004 [Multimedia Technology for Applications](#) Bing J. Sheu,Mohammed Ismail,1998-07-06 With an emphasis on consumer electronics the contributing authors to Multimedia Technology for Applications present the very latest advances in signal processing communications and networking computer databases and circuits and systems as they relate to multimedia technology and applications Topics covered include multimedia systems standards and trends submicro electronic enabling technologies digital library servers networking multimedia signal processing and applications Publisher s description

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