

CCD ARRAYS CAMERAS and DISPLAYS

Gerald C. Holst

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**Ralph Jacobson, Sidney Ray, Geoffrey G
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CCD Arrays, Cameras, and Displays Gerald C. Holst, 1996 **CCD Arrays, Cameras, and Displays** Gerald C.

Holst, 1998 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 *Infrared Optics and Zoom Lenses* Allen Mann, 2009 Ten years after publication of *Infrared Optics and Zoom Lenses* this text is still the only current publication devoted exclusively to infrared zoom lenses This updated second edition includes 18 new refractive and reflective infrared zoom systems bringing the total number of infrared zoom optical systems to 41 systems Other additions include a section for focal plane arrays and a new closing chapter specifically devoted to applications of infrared zoom lenses The wavelength region has been expanded to include the near infrared Additional topics include the importance of principal planes athermalization by means of computer glass substitution and global optimization of zoom lenses **Practical Handbook on Image Processing for Scientific and Technical**

Applications Bernd Jahne, 2004-03-15 The second edition of a bestseller this book is a practical guide to image processing for the natural and technical sciences community Students practitioners and researchers can gain immediate access to a sound basic knowledge of image processing by referencing general principles in the natural sciences The book describes carefully selected algorithms in detail and demonstrates real world applications that show the reader how to solve complex image processing problems Hundreds of photos figures diagrams and tables illustrate the text and numerous well organized tips save countless hours in the practical handling of image acquisition and processing Technology of Quantum Devices

Manijeh Razeghi, 2009-12-11 *Technology of Quantum Devices* offers a multi disciplinary overview of solid state physics photonics and semiconductor growth and fabrication Readers will find up to date coverage of compound semiconductors crystal growth techniques silicon and compound semiconductor device technology in addition to intersubband and semiconductor lasers Recent findings in quantum tunneling transport quantum well intersubband photodetectors QWIP and quantum dot photodetectors QWDIP are described along with a thorough set of sample problems **Handbook of CCD**

Astronomy Steve B. Howell, 2006-03-02 Charge Coupled Devices CCDs are the state of the art detector in many fields of observational science Updated to include all of the latest developments in CCDs this second edition of the *Handbook of CCD Astronomy* is a concise and accessible reference on all practical aspects of using CCDs Starting with their electronic workings it discusses their basic characteristics and then gives methods and examples of how to determine these values While the book focuses on the use of CCDs in professional observational astronomy advanced amateur astronomers and

researchers in physics chemistry medical imaging and remote sensing will also find it very valuable Tables of useful and hard to find data key practical equations and new exercises round off the book and ensure that it provides an ideal introduction to the practical use of CCDs for graduate students and a handy reference for more experienced users Video Codec Design Iain E. Richardson, 2002-05-22 Video compression coding is the enabling technology behind a new wave of communication applications From streaming internet video to broadcast digital television and digital cinema the video codec is a key building block for a host of new multimedia applications and services Video Codec Design sets out to demystify the subject of video coding and present a practical design based approach to this emerging field Featuring Guidance on the practical design and implementation of video coding technology Explanation of the major video coding standards including MPEG 2 MPEG 4 H 263 and H 26L Detailed coverage of key video coding techniques and core algorithms Examination of critical design issues including transmission Quality of Service and processing platforms A wealth of illustrations and practical examples including quantitative comparisons of design alternatives Video Codec Design provides communications engineers system designers researchers and technical managers with an essential handbook to image and video compression technology The clear presentation and emphasis on real life examples make this book an excellent teaching tool for computer science and electronic engineering instructors **Manual of Photography** Ralph Jacobson, Sidney Ray, Geoffrey G Attridge, Norman Axford, 2000-08-17 The Manual of Photography is the standard work for anyone who is serious about photography professional photographers and lab technicians or managers as well as students and enthusiastic amateurs who want to become more technically competent The authors provide comprehensive and accessible coverage of the techniques and technologies of photography The Manual has aided many thousands of photographers in their careers The ninth edition now brings this text into a third century as the first edition dates from 1890 Major new updates for the ninth edition include Coverage of digital techniques more emphasis on electronic and hybrid media Greater coverage of colour measurement specification and reproduction illustrated with a new colour plate section Dealing with the fundamental principles as well as the practices of photography and imaging the Manual topics ranging from optics to camera types and features to colour photography and digital image processing and manipulation The authors write in a reader friendly style using many explanatory illustrations and dividing topics into clear sections Three-Dimensional Imaging, Visualization, and Display Bahram Javidi, Fumio Okano, Jung-Young Son, 2010-07-15 Here is an up to date examination of recent developments in 3D imaging as well as coverage of the prospects and challenges facing 3D moving picture systems and devices including binocular multi view holographic and image reproduction techniques **Calibration and Orientation of Cameras in Computer Vision** Armin Gruen, Thomas S. Huang, 2013-03-09 This book was conceived during the Workshop Calibration and Orientation of Cameras in Computer Vision at the XVIIth Congress of the ISPRS International Society of Photogrammetry and Remote Sensing in July 1992 in Washington D C The goal of this workshop was to bring photogrammetry and computer

vision experts together in order to exchange ideas concepts and approaches in camera calibration and orientation These topics have been addressed in photogrammetry research for a long time starting in the second half of the 19th century Over the years standard procedures have been developed and implemented in particular for metric cameras such that in the photogrammetric community such issues were considered as solved problems With the increased use of non metric cameras in photogrammetry they are revealingly called amateur cameras especially CCD cameras and the exciting possibilities of acquiring long image sequences quite effortlessly and processing image data automatically online and even in real time the need to take a new and fresh look at various calibration and orientation issues became obvious Here most activities emerged through the computer vision community which was somewhat unaware as to what had already been achieved in photogrammetry On the other hand photogrammetrists seemed to ignore the new and interesting studies in particular on the problems of orientation that were being performed by computer vision experts

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