



# **Scientific Charge-Coupled Devices**

**James R. Janesick**

# Scientific Charge Coupled Devices

**Vladimir I. Karasev, Victor A. Shilin**



## **Scientific Charge Coupled Devices:**

**Scientific Charge-coupled Devices** James R. Janesick, 2001 The book provides invaluable information to scientists engineers and product managers involved with imaging CCDs as well as those who need a comprehensive introduction to the subject Page 4 de la couverture

*Scientific Detectors for Astronomy* P. Amico, James W. Beletic, 2006-04-18 Dear Friends It seems like it was only yesterday that we drove the last of you to the airport The memories and the spirit of the Scientific Detectors for Astronomy Workshop SDW2002 remain fresh and strong For us this was a very special event a great gathering of what may be one of the friendliest and most cooperative technical communities on our little planet We have tried to capture the spirit of the Workshop in these Proceedings and we hope you are able to relive your week in Hawaii For those readers who did not attend we invite you into this community As you probably noticed there is a new name on the cover Jenna Beletic was the ace up our sleeve for these Proceedings As a summer intern at Keck she took up the task of organizing proofreading editing and formatting the papers She also made the graphics her artistic talents shine on pages xxxiii and xxxv contacted authors and prepared the mountain of paperwork which goes with producing a book Jenna s enthusiasm at learning her passion for the job and creativity e g find 100 ways to get Paola and Jim to do their jobs have been a motivating addition to our team of old workshop foxes and a source for a good deal of paternal pride We are honoured to have her as a fellow editor

**Electronic Imaging in Astronomy** Ian S. McLean, 2008-06-25 The second edition of *Electronic Imaging in Astronomy Detectors and Instrumentation* describes the remarkable developments that have taken place in astronomical detectors and instrumentation in recent years from the invention of the charge coupled device CCD in 1970 to the current era of very large telescopes such as the Keck 10 meter telescopes in Hawaii with their laser guide star adaptive optics which rival the image quality of the Hubble Space Telescope Authored by one of the world s foremost experts on the design and development of electronic imaging systems for astronomy this book has been written on several levels to appeal to a broad readership Mathematical expositions are designed to encourage a wider audience especially among the growing community of amateur astronomers with small telescopes with CCD cameras The book can be used at the college level for an introductory course on modern astronomical detectors and instruments and as a supplement for a practical or laboratory class

*Scientific Detectors for Astronomy 2005* Jenna E. Beletic, James W. Beletic, Paola Amico, 2006-09-14 The 2005 meeting in Taormina Italy was attended by 127 professionals who develop and use the highest quality detectors for wavelengths from x ray to sub mm with emphasis on optical and infrared detectors The meeting consisted of overview talks technical presentations poster sessions and roundtable discussions These proceedings capture the technical content and the spirit of the 2005 workshop The 87 papers cover a wide range of detector technologies including CCDs CMOS APDs and sub mm detectors There are papers on observatory status and plans special applications detector testing and characterization and electronics A special feature of these proceedings is the inclusion of pedagogical overview papers which were written by

teams of leading experts from different institutions These proceedings are appropriate for a range of expertise levels from undergraduates to professionals working in the field The information presented in this book will serve as a valuable reference for many years to come This workshop was organized by the Scientific Workshop Factory Inc and the INAF Osservatorio Astrofisico di Catania

**Device and Circuit Cryogenic Operation for Low Temperature Electronics** Francis Balestra, G. Ghibaudo, 2013-11-11 Device and Circuit Cryogenic Operation for Low Temperature Electronics is a first in reviewing the performance and physical mechanisms of advanced devices and circuits at cryogenic temperatures that can be used for many applications The first two chapters cover bulk silicon and SOI MOSFETs The electronic transport in the inversion layer the influence of impurity freeze out the special electrical properties of SOI structures the device reliability and the interest of a low temperature operation for the ultimate integration of silicon down to nanometer dimensions are described The next two chapters deal with Silicon Germanium and III V Heterojunction Bipolar Transistors as well as III V High Electron Mobility Transistors HEMT The basic physics of the SiGe HBT and its unique cryogenic capabilities the optimization of such bipolar devices and the performance of SiGe HBT BiCMOS technology at liquid nitrogen temperature are examined The physical effects in III V semiconductors at low temperature the HEMT and HBT static high frequency and noise properties and the comparison of various cooled III V devices are also addressed The next chapter treats quantum effect devices made of silicon materials The major quantum effects at low temperature quantum wires quantum dots as well as single electron devices and applications are investigated The last chapter overviews the performances of cryogenic circuits and their applications The low temperature properties and performance of inverters multipliers adders operational amplifiers memories microprocessors imaging devices circuits and systems sensors and read out circuits are analyzed Device and Circuit Cryogenic Operation for Low Temperature Electronics is useful for researchers engineers Ph D and M S students working in the field of advanced electron devices and circuits new semiconductor materials and low temperature electronics and physics

Scientific and Technical Aerospace Reports, 1989      *Standard Terminology for Scientific Charge-Coupled Device CCD Detectors*,      **Charge-coupled Devices and Solid State Optical Sensors**, 1995      Fifth Conference on Charge-Coupled Devices and CCD Systems Vladimir I. Karasev, Victor A. Shilin, 1996      *Effects of Radiation Damage on Scientific Charge Coupled Devices* Timothy D. Hardy, 1997      *Design Optimization and Simulation of GaAs Charge Coupled Devices* Nazmul Ula, 1991      **Solid State Imaging Arrays** Keith N. Prettyjohns, Eustace L. Dereniak, 1985

**Charge-coupled Devices and Solid State Optical Sensors** Morley M. Blouke, 1990      *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      **EUV, X-ray, and Gamma-ray Instrumentation for Astronomy and Atomic Physics** Charles J. Hailey, Oswald H. W. Siegmund, 1989      *Sensors, Cameras, and Systems for Scientific/industrial Applications* Morley M. Blouke, George M. Williams, 1999      **Communication**, 1991      Radiation Damage in Scientific Charge-coupled Devices Niels Bassler, 2002      **Sensor Technology and Devices** Ljubiša Ristić, 1994

A results oriented book Quality line drawings lucid photography and informative graphs are used generously The theoretical rigor of each chapter amply supports the real world design examples that follow Sensors Magazine One of the few sources to offer such comprehensive coverage IEEE Electrical Insulation      **Image Acquisition and Scientific Imaging Systems** Helen C. Marz, 1994

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