

Second Edition

ELECTRONIC IMAGING IN ASTRONOMY

Detectors and Instrumentation

Ian S. McLean



 Springer

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Electronic Imaging in Astronomy Ian S. McLean, 2008-08-17 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 *Electronic Imaging in Astronomy* Ian S. McLean, 2009-08-29 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 [Electronic Imaging in Astronomy](#) Ian S. McLean, 1997-04-17 This book emphasizes the synergy between high technology and our ability to study and comprehend the universe It describes the key technologies and ways in which computers affect modern astronomy The author discusses instrumentation for infrared ultraviolet x ray radio and gamma ray astronomy and considers the new generation of telescopes [Essentials of Anatomy and Physiology](#) Stephen Seeley, Rodney R. Seeley, Trent D. Stephens, Cram101 Textbook Reviews, 2011-02 Never HIGHLIGHT a Book Again Virtually all of the testable terms concepts persons places and events from the textbook are included Cram101 Just the FACTS101 studyguides give all of the outlines highlights notes and quizzes for your textbook with optional online comprehensive practice tests Only Cram101 is Textbook Specific Accompanys 9783540765820 *Astronomy in the Near-Infrared - Observing Strategies and Data Reduction Techniques* Jochen Heidt, 2022-07-04 Near infrared astronomy has become one of the most rapidly developing branches in modern astrophysics Innovative observing techniques near infrared detectors with quantum efficiencies in excess of 90% highly specialised instruments as well as advanced data reduction techniques have allowed major breakthroughs in various

areas like exoplanets star forming regions the supermassive black hole in the Galactic center and the high redshift Universe In this book the reader will be introduced to the basic concepts of how to prepare near infrared observations with maximized scientific return Equal weight is given to all aspects of the data reduction for both imaging and spectroscopy Information is also provided on the state of the art instrumentation available and planned on detector technology or the physics of the atmosphere all of which influence the preparation and execution of observations and data reduction techniques The beginner but also the expert will find a lot of information in compact form which is otherwise widely dispersed across the internet or other sources

Physics and Engineering of Radiation Detection Syed Naeem Ahmed,2014-11-20 Physics and Engineering of Radiation Detection presents an overview of the physics of radiation detection and its applications It covers the origins and properties of different kinds of ionizing radiation their detection and measurement and the procedures used to protect people and the environment from their potentially harmful effects The second edition is fully revised and provides the latest developments in detector technology and analyses software Also more material related to measurements in particle physics and a complete solutions manual have been added Discusses the experimental techniques and instrumentation used in different detection systems in a very practical way without sacrificing the physics content Provides useful formulae and explains methodologies to solve problems related to radiation measurements Contains many worked out examples and end of chapter problems Detailed discussions on different detection media such as gases liquids liquefied gases semiconductors and scintillators Chapters on statistics data analysis techniques software for data analysis and data acquisition systems

Introduction to Astronomical Photometry Edwin Budding,Osman Demircan,2007-04-26 Review of astronomical photometry for graduate students researchers and advanced amateurs in practical and observational astronomy

Single-Photon Imaging Peter Seitz,Albert J. P. Theuwissen,2011-08-03 The acquisition and interpretation of images is a central capability in almost all scientific and technological domains In particular the acquisition of electromagnetic radiation in the form of visible light UV infrared X ray etc is of enormous practical importance The ultimate sensitivity in electronic imaging is the detection of individual photons With this book the first comprehensive review of all aspects of single photon electronic imaging has been created Topics include theoretical basics semiconductor fabrication single photon detection principles imager design and applications of different spectral domains Today the solid state fabrication capabilities for several types of image sensors has advanced to a point where uncooled single photon electronic imaging will soon become a consumer product This book is giving a specialist s view from different domains to the forthcoming single photon imaging revolution The various aspects of single photon imaging are treated by internationally renowned leading scientists and technologists who have all pioneered their respective fields

Physics of Semiconductor Devices Simon M. Sze,Yiming Li,Kwok K. Ng,2021-03-03 The new edition of the most detailed and comprehensive single volume reference on major semiconductor devices The Fourth Edition of Physics of Semiconductor Devices remains the standard reference work on the

fundamental physics and operational characteristics of all major bipolar unipolar special microwave and optoelectronic devices This fully updated and expanded edition includes approximately 1 000 references to original research papers and review articles more than 650 high quality technical illustrations and over two dozen tables of material parameters Divided into five parts the text first provides a summary of semiconductor properties covering energy band carrier concentration and transport properties The second part surveys the basic building blocks of semiconductor devices including p n junctions metal semiconductor contacts and metal insulator semiconductor MIS capacitors Part III examines bipolar transistors MOSFETs MOS field effect transistors and other field effect transistors such as JFETs junction field effect transistors and MESFETs metal semiconductor field effect transistors Part IV focuses on negative resistance and power devices The book concludes with coverage of photonic devices and sensors including light emitting diodes LEDs solar cells and various photodetectors and semiconductor sensors This classic volume the standard textbook and reference in the field of semiconductor devices Provides the practical foundation necessary for understanding the devices currently in use and evaluating the performance and limitations of future devices Offers completely updated and revised information that reflects advances in device concepts performance and application Features discussions of topics of contemporary interest such as applications of photonic devices that convert optical energy to electric energy Includes numerous problem sets real world examples tables figures and illustrations several useful appendices and a detailed solutions manual for Instructor s only Explores new work on leading edge technologies such as MODFETs resonant tunneling diodes quantum cascade lasers single electron transistors real space transfer devices and MOS controlled thyristors Physics of Semiconductor Devices Fourth Edition is an indispensable resource for design engineers research scientists industrial and electronics engineering managers and graduate students in the field

Optical and IR Telescope Instrumentation and Detectors ,2000 **Microscope Image Processing** Qiang Wu,Fatima Merchant,Kenneth Castleman,2010-07-27 Digital image processing an integral part of microscopy is increasingly important to the fields of medicine and scientific research This book provides a unique one stop reference on the theory technique and applications of this technology Written by leading experts in the field this book presents a unique practical perspective of state of the art microscope image processing and the development of specialized algorithms It contains in depth analysis of methods coupled with the results of specific real world experiments Microscope Image Processing covers image digitization and display object measurement and classification autofocus and structured illumination Key Features Detailed descriptions of many leading edge methods and algorithms In depth analysis of the method and experimental results taken from real life examples Emphasis on computational and algorithmic aspects of microscope image processing Advanced material on geometric morphological and wavelet image processing fluorescence three dimensional and time lapse microscopy microscope image enhancement MultiSpectral imaging and image data management This book is of interest to all scientists engineers clinicians post graduate fellows and graduate students

working in the fields of biology medicine chemistry pharmacology and other related fields Anyone who uses microscopes in their work and needs to understand the methodologies and capabilities of the latest digital image processing techniques will find this book invaluable Presents a unique practical perspective of state of the art microscope image processing and the development of specialized algorithms Each chapter includes in depth analysis of methods coupled with the results of specific real world experiments Co edited by Kenneth R Castleman world renowned pioneer in digital image processing and author of two seminal textbooks on the subject Observation of the Earth and Its Environment Herbert J. Kramer,2019-01-30 This book is about spaceborne missions and instruments In addition surveys of airborne missions and of campaigns can be found on the accompanying CD ROM in pdf format Compared with the 3rd edition the spaceborne part grew from about 300 to 1000 pages The complete text including the electronic only chapters contains more than 1900 pages New chapters treat the history of Earth observation and university missions The number of commercial Earth imaging missions has grown significantly A chapter contains reference data and definitions Extensive appendices provide a comprehensive glossary acronyms and abbreviations and an index of sensors An effort has been made to present the information in context to point out relationships and interconnections The book may serve as a reference and guide to all involved in the various national and international space programs researchers and managers service providers and data users teachers and students

Theoretical Concepts in Physics Malcolm S. Longair,2003-12-04 A highly original and truly novel approach to theoretical reasoning in physics This book illuminates the subject from the perspective of real physics as practised by research scientists It is intended to be a supplement to the final years of an undergraduate course in physics and assumes that the reader has some grasp of university physics By means of a series of seven case studies the author conveys the excitement of research and discovery highlighting the intellectual struggles to attain understanding of some of the most difficult concepts in physics Case studies include the origins of Newton s law of gravitation Maxwell s equations mechanics and dynamics linear and non linear thermodynamics and statistical physics the origins of the concepts of quanta special relativity general relativity and cosmology The approach is the same as that in the highly acclaimed first edition but the text has been completely revised and many new topics introduced **Asteroids and Dwarf Planets and How to Observe Them** Roger Dymock,2010-11-01 Dwarf planets which were formerly called asteroids except for the planet Pluto and the smaller Solar System bodies still called asteroids today are making front page news particularly those that are newly discovered and those that might present a hazard to life on Earth by impacting our planet In this age of giant telescopes and space probes these small Solar System bodies have advanced from being tiny points of light to bodies worthy of widespread study This book describes the dwarf planets and asteroids themselves their origins orbits and composition and at how amateur astronomers can play a part in their detection tracking and imaging The book is divided into two parts Part I describes physical properties including taxonomic types of dwarf planets and asteroids how they formed in the early life of the Solar System and how they evolved to

their present positions groups and families It also covers the properties used to define these small Solar System bodies magnitude rotation rates described by their light curves and orbital characteristics Part II opens with a description of the hardware and software an amateur or practical astronomer needs to observe and also to image asteroids Then numerous observing techniques are covered in depth Finally there are lists of relevant amateur and professional organizations and how to submit your own observations to them

Encyclopedia of Astronomy & Astrophysics P Murdin,2001-01-01 In a unique collaboration Nature Publishing Group and Institute of Physics Publishing have published the most extensive and comprehensive reference work in astronomy and astrophysics This unique resource covers the entire field of astronomy and astrophysics and this online version includes the full text of over 2 750 articles plus sophisticated search and retrieval functionality and links to the primary literature The Encyclopaedia s authority is assured by editorial and advisory boards drawn from the world s foremost astronomers and astrophysicists This first class resource is an essential source of information for undergraduates graduate students researchers and seasoned professionals as well as for committed amateurs librarians and lay people wishing to consult the definitive astronomy and astrophysics reference work

The Cosmic Century Malcolm S. Longair,2006-06-15 Reviews the historical development of all the key areas of modern astrophysics

Instrument Design and Performance for Optical/infrared Ground-based Telescopes Masanori Iye,Alan F. M.

Moorwood,2003

Handbook for Highly Charged Ion Spectroscopic Research Yaming Zou,Roger Hutton,Fred Currell,Indrek Martinson,Siegbert Hagmann,2016-04-19 The spectroscopy of highly charged ions plays a key role in numerous areas of physics from quantum electrodynamics QED and parity nonconservation PNC testing to fusion and plasma physics to x ray astronomy Handbook for Highly Charged Ion Spectroscopic Research brings together many of the techniques and ideas needed to carry out state of the a

Eclipsing Binary Stars: Modeling and Analysis Josef Kallrath,Eugene F. Milone,2009-08-14 Have you ever stopped at a construction project on the way to your of ce and the day s astrophysics Remember the other onlookers folks just enjoying the sp tacle as we all do in following developments away from our areas of active work We are excited and thrilled when the Hubble Space Telescope discovers an Einstein Cross when the marvelous pulsars enter our lives and when computer scientists put a little box on our desk that outperforms yesterday s giant machines We are free to make use of such achievements and we respect the imagination and discipline needed to bring them about just as onlookers respect the abilities and planning needed to create a building they may later use After all each of us contributes in our own areas as best as we can In addition to the serious onlookers there will be passersby who take only a casual look at the site They may use the building later but have little or no interest in its construction and give no thought to the resources needed tobring it to completion Upon arriving at work those persons write astronomy and astrophysics books at various levels in which they must say something about close binary stars Usually a page or two will do and the emphasis is on the MLR mass luminosity radius data obtained only from binaries

Infrared Detectors and Instrumentation for Astronomy

Albert M. Fowler, Society of Photo-optical Instrumentation Engineers, 1995

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **Electronic Imaging In Astronomy Detectors And Instrumentation**

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