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Nowadays, CCDs are the detector of choice in astronomical observatories worldwide, whether in-space or on-ground, and working from the infrared to X-rays. CCDs are also implemented in amateurs ' telescopes and have even made feasible astronomical observation from within cities.

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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.

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Astronomy is an observational science, renewed and even revolutionized by new developments in instrumentation. With the resulting growth of multiwavelength investigation as an engine of discovery, it is increasingly important for astronomers to understand the underlying physical principles and operational characteristics for a broad range of instruments. This comprehensive text is ideal for graduate students, active researchers and instrument developers. It is a thorough review of how astronomers obtain their data, covering current approaches to astronomical measurements from radio to gamma rays. The focus is on current technology rather than the history of the field, allowing each topic to be discussed in depth. Areas covered include telescopes, detectors, photometry, spectroscopy, adaptive optics and high-contrast imaging, millimeter-wave and radio receivers, radio and optical/infrared interferometry, and X-ray and gamma-ray astronomy, all at a level that bridges the gap between the basic principles of optics and the subject's abundant specialist literature. Color versions of figures and solutions to selected problems are available online at www.cambridge.org/9780521762298.

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.

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 uncoooled 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 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

There is no dearth of books on telescope optics and, indeed, optics is clearly a keyelementinthedesignandconstructionoftelescopes.Butitisbynomeans the only important element. As telescopes become larger and more costly, other aspects such as structures, pointing, wavefront control, enclosures, and project management become just as critical. Although most of the technical knowledge required for all these ?elds is available in various specialized books, journal articles, and technical reports, they are not necessarily written with application to telescopes in mind. This bookisa?rstattemptatassemblinginasingletextthebasicastronomicaland engineering principles used in the design and construction of large telescopes.
Itsaimistobroadlycoverallmajoraspectsofthe?eld,fromthefundamentals ofastronomicalobservationto optics, controlsystems,structural,mechanical, andthermalengineering,aswellasspecializedtopicssuchassiteselectionand program management. This subject is so vast that an in-depth treatment is obviously imprac- cal. Our intent is therefore only to provide a comprehensive introduction to the essential aspects of telescope design and construction. This book will not replace specialized scienti?c and technical texts. But we hope that it will be useful for astronomers, managers, and systems engineers who seek a basic understanding of the underlying principles of telescope making, and for s- cialists who wish to acquaint themselves with the fundamental requirements and approaches of their colleagues in other disciplines.

The twentieth century witnessed the development of astrophysics and cosmology from subjects which scarcely existed to two of the most exciting and demanding areas of contemporary scientific inquiry. In this book Malcolm Longair reviews the historical development of the key areas of modern astrophysics, linking the strands together to show how they have led to the extraordinarily rich panorama of modern astrophysics and cosmology. While many of the great discoveries were derived from pioneering observations, the emphasis is upon the development of theoretical concepts and how they came to be accepted. These advances have led astrophysicists and cosmologists to ask some of the deepest questions about the nature of our Universe and have pushed astronomical observations to the very limit. This is a fantastic story, and one which would have defied the imaginations of even the greatest storytellers.

Review of astronomical photometry for graduate students, researchers and advanced amateurs in practical and observational astronomy.

Astrophysics is facing challenging aims such as deep cosmology at redshift higher than 10 to constrain cosmology models, or the detection of exoplanets, and possibly terrestrial exoplanets, and several others. It requires unprecedented ambitious R&D programs, which have definitely to rely on a tight cooperation between astrophysics and optics communities. The book addresses most of the most critical interdisciplinary domains where they interact, or where they will do. A first need is to collect more light, i.e. telescopes still larger than the current 8-10 meter class ones. Decametric, and even hectometric, optical (from UV to IR wavelengths) telescopes are being studied. Whereas up to now the light collecting surface of new telescopes was approximately 4 times that of the previous generation, now this factor is growing to 10 to 100. This quantum leap urges to implement new methods or technologies developed in the optics community, both in academic labs and in the industry. Given the astrophysical goals and technological constraints, new generation adaptive optics with a huge number of actuators and laser guide stars devices have to be developed, from theoretical bases to experimental works. Two other newcomers in observational astrophysics are interferometric arrays of optical telescopes and gravitational wave detectors. Up-to-date reviews of detectors and of spectrographs are given, as well as forefront R&D in the field of optical coatings and of guided optics. Possible new ways to handle photons are also addressed, based on quantum physics. More and more signal processing algorithms are a part and parcel of any modern instrumentation. Thus finally the book gives two reviews about wavefront processing and about image restoration and deconvolution algorithms for ill conditioned cases.