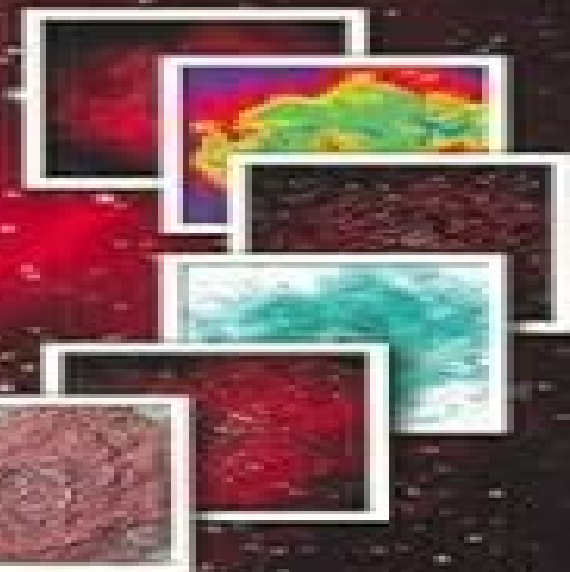


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The Cambridge Photographic Atlas of Galaxies Michael König, Stefan Binnewies, 2017-09-07 Galaxies the Milky Way's siblings offer a surprising variety of forms and colours Displaying symmetrical spiral arms glowing red nebulae or diffuse halos even the image of a galaxy can reveal much about its construction All galaxies consist of gas dust and stars but the effects of gravity dark matter and the interaction of star formation and stellar explosions all influence their appearances This volume showcases more than 250 of the most beautiful galaxies within an amateur's reach and uses them to explain current astrophysical research It features fantastic photographs unique insights into our knowledge tips on astrophotography and essential facts and figures based on the latest science From the Andromeda Galaxy to galaxy clusters and gravitational lenses the nature of galaxies is revealed through these stunning amateur photographs This well illustrated reference atlas deserves a place on the bookshelves of astronomical imagers observers and armchair enthusiasts

Observing Variable Stars Gerry A. Good, 2012-12-06 Observing variable stars is one of the major contributions amateur astronomers make to science There are 36 000 variable stars listed in the General Catalogue of Variable Stars so it is clearly impossible for the limited number of professional observatories to target even the majority of them That's where amateur astronomers come in thousands of them turning their telescopes to the sky every night Variable star observing is the most popular of real science activities for amateurs and Gerry Good's book provides everything needed The first part of the book provides a highly detailed account of the various classes of variable star with examples illustrations and physical descriptions The second section covers practical aspects of observing everything from preparation and planning through observing techniques to data management and reduction

Creating and Enhancing Digital Astro Images Grant Privett, 2007-01-07 The book will in jargon free blow by blow terms describe how to create the best astronomical images you can with the digital camera equipment at your disposal It will explain the steps we go through to extract results from the raw and dirty original imagery and then transform them

into high quality pictures that you could hang on your wall The advent of CCDs and more recently inexpensive webcams has led to a much greater proportion of amateur astronomers becoming involved in digital imaging The low price of the new Meade Deep Sky Imager 299 2005 suggests that within a few years a simple digital camera will become a standard accessory for any telescope To summarise this is a book that tells practical astronomers and that includes some but not all professionals what is needed to get from standing in the dark with a telescope and a camera to showing your spouse local society friends or even supervisor the astonishing images that can be obtained with simple equipment but the right software and knowledge of how to use it CCD Astrophotography: High-Quality Imaging from the Suburbs Adam Stuart,2006-09-10 This book

details an approach to the problem of getting high quality astronomical images under light polluted conditions The book is for amateur astronomers interested in CCD imaging especially those who have to work under suburban conditions It outlines the materials and equipment used for high quality imaging The many wonderful images produced allow the reader to see the product of initially a fellow beginner s efforts Respectable images are attainable with modest equipment This book outlines a complete and thoroughly tested working program for every beginner to achieve high quality digital imaging Digital SLR Astrophotography Michael A. Covington,2018-10-18 Digital SLR cameras have made it easier than ever before to photograph the night sky Whether you re a beginner nature photographer or serious astronomer this is the definitive handbook to capturing the heavens Starting with simple projects for beginners such as cameras on tripods it then moves onto more advanced projects including telescope photography and methods of astronomical research With 80% revised and updated material this new edition covers nightscapes eclipses using cameras with sky trackers and telescopes and tools for identifying celestial objects and investigating them scientifically Image processing is discussed in detail with worked examples from three popular software packages Nebulosity Maxlm DL and PixInsight Rather than taking a recipe book approach Covington explains how your equipment works as well as offering advice on many practical considerations such as choice of set up and the testing of lenses making this a comprehensive guide for anyone involved in astrophotography

Remote Observatories for Amateur Astronomers Gerald R. Hubbell,Richard J. Williams,Linda M. Billard,2015-10-23 Amateur astronomers who want to enhance their capabilities to contribute to science need look no farther than this guide to using remote observatories The contributors cover how to build your own remote observatory as well as the existing infrastructure of commercial networks of remote observatories that are available to the amateur They provide specific advice on which programs to use based on your project objectives and offer practical project suggestions Remotely controlled observatories have many advantages the most obvious that the observer does not have to be physically present to carry out observations Such an observatory can also be used more fully because its time can be scheduled and usefully shared among several astronomers working on different observing projects More and more professional level observatories are open to use by amateurs in this way via the Internet and more advanced amateur astronomers can even build their own remote

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period eclipsing binaries has been made possible through the availability of remote telescopes such as those operated by the Sierra Stars Observatory Network SSON. Whichever route you take this book is essential reading for all who aspire to serious observing. David Pulley, The Local Group, UK.

Handbook of Massive Data Sets James Abello, Panos M. Pardalos, Mauricio G.C. Resende, 2013-12-21. The proliferation of massive data sets brings with it a series of special computational challenges. This data avalanche arises in a wide range of scientific and commercial applications. With advances in computer and information technologies many of these challenges are beginning to be addressed by diverse interdisciplinary groups that include computer scientists, mathematicians, statisticians, and engineers working in close cooperation with application domain experts. High profile applications include astrophysics, bio technology, demographics, finance, geographical information systems, government, medicine, telecommunications, the environment, and the internet. John R. Tucker of the Board on Mathematical Sciences has stated: "My interest in this problem: Massive Data Sets is that I see it as the most important cross-cutting problem for the mathematical sciences in practical problem solving for the next decade because it is so pervasive." The Handbook of Massive Data Sets is comprised of articles written by experts on selected topics that deal with some major aspect of massive data sets. It contains chapters on information retrieval both in the internet and in the traditional sense, web crawlers, massive graphs, string processing, data compression, clustering methods, wavelets, optimization, external memory algorithms, and data structures. The US national cluster project, high performance computing, data warehouses, data cubes, semi-structured data, data squashing, data quality, billing in the large, fraud detection, and data processing in astrophysics, air pollution, biomolecular data, earth observation, and the environment.

Observing and Measuring Visual Double Stars R. W. Argyle, 2012-09-06. The second edition of Observing and Measuring Visual Double Stars 2004 is the definitive book for those who are serious about this fascinating aspect of astronomy. It deals with equipment you can start modestly with, commercial or even home-made instruments, observing methods using binoculars upwards to advanced instrumentation and techniques including speckle interferometry. The astronomy of double stars including orbital calculation is given its own section. This second edition of this popular book contains a significant amount of completely new material inspired by the work done by observers particularly in the USA since the first edition was published. This includes the use of the Internet to carry out astrometry, precise astronomical measurement using existing survey plates and films. The new edition contains an excellent guide to sketching double stars, a topic not previously covered. In addition, there is information about how to image double stars of unequal brightness, always a difficult matter but now somewhat easier because of advances in hardware and image processing software. Nearly all of the chapters and tables have been updated. The CD-ROM that accompanied the first edition of Observing and Measuring Visual Double Stars is replaced by access to the Springer Extras web site. The extra information includes the complete Washington Double Star and Tycho 2 Catalogs. There is an extensive database of astrometric double and multiple star formation including positions, orbits, separations, and magnitudes, and a software suite.

that implements many of the calculations and equations featured in the book **Deep-Sky Video Astronomy** Steve Massey, Steve Quirk, 2009-04-21 Deep Sky Video Astronomy is a concise guide to using modern integrating video cameras for deep sky viewing and imaging with the kinds of modest telescopes available commercially to amateur astronomers It includes an introduction and a brief history of the technology camera types etc The authors then examine the pros and cons of this unrefrigerated yet highly efficient technology which is already beginning to compete with expensive astronomical cooled chip CCD cameras in quality and ease of use There is a thorough examination of accessories used to achieve particular results Examples are focal reducers Barlow lenses and optical filters However the focus is mostly on the practical side of creating beautiful and detailed astronomical portraits using image stacking software enhancement tools like PhotoShop and creating color images with a black and white camera Practical step by step examples supported by tried and trusted tips show how to achieve the best possible deep sky video portrait **Modern Meteor Science** Robert Hawkes, Ingrid Mann, Peter Brown, 2006-08-18 This volume contains leading edge research and authoritative reviews in meteor science It provides a comprehensive view of meteoroid research including the dynamics sources and distribution of these bodies Techniques for investigation of meteor phenomena in the book include conventional and large aperture radar systems spacecraft detection optical systems spectral measurements and laboratory based interplanetary dust particle studies Computing Handbook Teofilo Gonzalez, Jorge Diaz-Herrera, Allen Tucker, 2014-05-07 The first volume of this popular handbook mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers it examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals Zdenek Kopal's Binary Star Legacy Horst Drechsel, Miloslav Zejda, 2005-03-22 These proceedings celebrate the achievements of the great astronomer Zdenek Kopal and reflect the state of the art of the dynamically evolving field of binary research which owes so much to Kopal's pioneering work *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 How to Observe the Sun Safely Lee Macdonald, 2012-07-06 How to

Observe the Sun Safely 2nd Edition gives all the basic information and advice the amateur astronomer needs to get started in observing our own ever fascinating star Unlike many other astronomical objects you do not need a large telescope or expensive equipment to observe the Sun And it is possible to take excellent pictures of the Sun with today s low cost digital cameras This title concentrates on providing practical on the spot advice to the amateur astronomer who is interested in observing the Sun using commercially available equipment This book surveys what is visible on the Sun before describing how to record solar features and measure solar activity levels There is also an account of how to use H alpha and Calcium K filters to observe and record prominences and other features of the solar chromosphere the Sun s inner atmosphere Because we are just entering a period of high activity on the Sun following a long quiet period many more amateur astronomers will become interested in observing it The second edition includes an update of Chapter 2 to reflect advances in solar observing equipment since 2002 and a section on building a solar projection box originally included in the main body of this chapter has been moved to Appendix A Also Chapter 6 thru 8 have been completely revised to give amateur astronomers advice on how to use film to photograph the Sun and how to use digital cameras This new edition also includes more than twice as many illustrations as the first and almost half of them new images

Handbook of Mathematical Methods in Imaging Otmar Scherzer, 2010-11-23 The Handbook of Mathematical Methods in Imaging provides a comprehensive treatment of the mathematical techniques used in imaging science The material is grouped into two central themes namely Inverse Problems Algorithmic Reconstruction and Signal and Image Processing Each section within the themes covers applications modeling mathematics numerical methods using a case example and open questions Written by experts in the area the presentation is mathematically rigorous The entries are cross referenced for easy navigation through connected topics Available in both print and electronic forms the handbook is enhanced by more than 150 illustrations and an extended bibliography It will benefit students scientists and researchers in applied mathematics Engineers and computer scientists working in imaging will also find this handbook useful

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