

The Handbook Of Astronomical Image Processing

Edwin Budding, Osman Demircan

The Handbook Of Astronomical Image Processing:

The Handbook of Astronomical Image Processing Richard Berry, 2017 **Lessons from the Masters** Robert Gendler, 2013-08-13 There are currently thousands of amateur astronomers around the world engaged in astrophotography at a sophisticated level Their ranks far outnumber professional astronomers doing the same and their contributions both technically and artistically are the dominant drivers of progress in the field today This book is a unique collaboration of individuals world renowned in their particular area and covers in detail each of the major sub disciplines of astrophotography This approach offers the reader the greatest opportunity to learn the most current information and the latest techniques directly from the foremost innovators in the field today Lessons from the Masters includes a brilliant body of recognized leaders in astronomical imaging assembled by Robert Gendler who delivers the most current sophisticated and useful information on digital enhancement techniques in astrophotography available today Each chapter focuses on a particular technique but the book as a whole covers all types of astronomical image processing including processing of events such as eclipses using DSLRs and deep sky planetary widefield and high resolution astronomical image processing Recognized contributors include deep sky experts such as Jay GaBany Tony Hallas and Ken Crawford high resolution planetary expert Damian Peach and the founder of TWAN The World at Night Babak A Tafreshi A large number of illustrations 150 75 in color present the challenges and accomplishments involved in the processing of astronomical images by enthusiasts Image Processing Handbook John C. Russ, 2002-07-26 First published in 1992 The Image Processing Handbook not only set the standard for professional references in this field but also provided the first text truly accessible to undergraduate students and non specialists Each subsequent edition has reflected the continuing rapid advances in image processing and the fourth edition is no exception Scientific Astrophotography Gerald R. Hubbell, 2012-11-09 Scientific Astrophotography is intended for those amateur astronomers who are looking for new challenges once they have mastered visual observing and the basic imaging of various astronomical objects It will also be a useful reference for scientifically inclined observers who want to learn the fundamentals of astrophotography with a firm emphasis on the discipline of scientific imaging This books is not about making beautiful astronomical images it is about recording astronomical images that are scientifically rigorous and from which accurate data can be extracted This book is unique in that it gives readers the skills necessary for obtaining excellent images for scientific purposes in a concise and procedurally oriented manner This not only gets the reader used to a disciplined approach to imaging to maximize quality but also to maximize the success and minimize the frustration inherent in the pursuit of astrophotography The knowledge and skills imparted to the reader of this handbook also provide an excellent basis for beautiful picture astrophotography There is a wealth of information in this book a distillation of ideas and data presented by a diverse set of sources and based on the most recent techniques equipment and data available to the amateur astronomer There are also numerous practical exercises Scientific Astrophotography is perfect for any amateur

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