

Gerald North

Observing the Solar System

The modern astronomer's guide



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Observing the Solar System Gerald North, 2012-10-25 Written by a well known and experienced amateur astronomer this is a practical primer for all aspiring observers of the planets and other Solar System objects Whether you are a beginner or more advanced astronomer you will find all you need in this book to help develop your knowledge and skills and move on to the next level of observing This up to date self contained guide provides a detailed and wide ranging background to Solar System astronomy along with extensive practical advice and resources Topics covered include traditional visual observing techniques using telescopes and ancillary equipment how to go about imaging astronomical bodies how to conduct measurements and research of scientifically useful quality the latest observing and imaging techniques Whether your interests lie in observing aurorae meteors the Sun the Moon asteroids comets or any of the major planets you will find all you need here to help you get started

Observing Comets Nick James, Gerald North, 2013-11-11 Since comet Shoemaker Levy collided with the planet Jupiter with stupendous force in 1994 there has been an upsurge of amateur interest in comets Most comets are first discovered by amateur astronomers because there are so many amateurs looking for them and techniques and instruments have improved dramatically in the past few years After a short but detailed introduction to the comets themselves Nick James and Gerald North describe comet hunting photographing and imaging comets and digital image processing The use of computers for orbital calculations and even helping to discover new comets is given a full chapter as are advanced techniques including comet photometry and spectroscopy This comprehensive book has an accompanying CD ROM and is at once a primer for comet hunters and a reference text for more advanced amateur astronomers

Observing Variable Stars, Novae and Supernovae Gerald North, Nick James, 2014-08-21 Gerald North's complete practical guide and resource package instructs amateur astronomers in observing and monitoring variable stars and other objects of variable brightness Descriptions of the objects are accompanied by explanations of the background astrophysics providing readers with real insight into what they are observing at the telescope The main instrumental requirements for observing and estimating the brightness of objects by visual means and by CCD photometry are detailed and there is advice on the selection of equipment The book contains a CD ROM packed with resources including hundreds of light curves and over 600 printable finder charts Containing extensive practical advice this comprehensive guide is an invaluable resource for amateur astronomers of all levels from novices to more advanced observers Gerald North is a lifelong amateur astronomer In addition to being a member of the British Astronomical Association since 1977 he is also the author of many books including *Advanced Amateur Astronomy* Cambridge 1997 and *Observing the Moon* Cambridge 2000

The Constellation Observing Atlas Grant Privett, Kevin Jones, 2013-08-13 Designed for anyone who wishes to learn the constellations or observe the best and brightest deep sky objects and double stars this book contains an alphabetical list of constellations complete with star maps historical background and highlights of deep sky objects Each entry contains position and physical information on

enough stars to support astronomers in star hopping swinging the telescope from star to star to star to arrive at a faint target. It provides a carefully selected list of accessible and rewarding deep sky objects. Full color maps show the constellations with star types spectral and physical indicated by the colors used on the map. Extended objects such as galaxies and nebulae are shown with the approximate apparent size in the sky. With unmatched thoroughness and accessibility this is a constellation atlas that makes the ideal companion to a night's telescope viewing for novices and expert amateur astronomers alike. Easy to navigate and refer to it is the key that unlocks the door to greater night sky exploration.

Make Time for the Stars Antony Cooke, 2009-04-09 Many amateur astronomers are short of time. A full time career usually takes up most waking hours and often there simply isn't time for leisurely observing. Fortunately modern technologies such as computer controlled telescopes GPS north seeking and level detection have made telescope set up much quicker. Today's imaging systems enable astronomers to take excellent astrophotographs without the hours long exposures. *Make Time for the Stars* explains what to try on a tight schedule and how to use today's equipment to get the most astronomy out of the least time. This book showcases a wide array of quickly performed astronomical projects including various novel or new approaches to observing. There are also practical tips for maximizing time at the telescope extracting optimal performance quick and efficient set up and easily carried out optical maintenance. Significantly the book features detailed information on alternative imaging techniques with simple and less time consuming efforts.

Observing the Moon Gerald North, 2007-07-05 Written by an experienced and well known lunar observer this is a hands on primer for the aspiring observer of the Moon. Whether you are a novice or are already experienced in practical astronomy you will find plenty in this book to help you raise your game to the next level and beyond. In this thoroughly updated second edition the author provides extensive practical advice and sophisticated background knowledge of the Moon and of lunar observation. It incorporates the latest developments in lunar imaging techniques including digital photography CCD imaging and webcam observing and essential advice on collimating all common types of telescope. Learn what scientists have discovered about our Moon and what mysteries remain still to be solved. Find out how you can take part in the efforts to solve these mysteries as well as enjoying the Moon's spectacular magnificence for yourself.

The Cambridge Guide to the Solar System Kenneth R. Lang, 2003-09-25 The Cambridge Guide to the Solar System provides a comprehensive and up to date description of the planets and their moons. Writing at an introductory level appropriate for high school and undergraduate students Professor Lang leads the reader on a fascinating journey of exploration to the worlds beyond our home planet Earth. The book begins with a short introduction to the history of planetary observation and discovery. The major planets and their moons are then introduced by presenting common properties processes and themes. This is followed by chapters which focus on individual planets and other solar system objects including a comprehensive treatment of the various space missions from the Apollo missions to the Moon to recent missions to Jupiter and Mars. Filled with vital facts and information and lavishly illustrated in colour throughout this book will

also appeal to professionals as well as general readers with an interest in planetary science *Astronomy Now*, 2005

Applications of Constellation Observing System for Meteorology, Ionosphere & Climate Lou-Chuang

Lee, Christian Rocken, Robert Kursinski, 2001-01-01 A collection of contributions from many experts from space research institutions in a joint US Taiwan project COSMIC Application of Constellation Observing System for Meteorology Ionosphere and Climate The COSMIC project data will complement other observing systems and improve global weather analyses These improved data analyses and forecast will provide significant benefits to aviation and other industries that accurate meteorological forecast are needed The COSMIC project is a science experience to demonstrate the utility of atmospheric limb surroundings from a constellation of eight low earth orbiting satellites in operational weather prediction space weather monitoring and space geodesy Advanced Amateur Astronomy Gerald North, 1997-08-21 This book first published in 1997

is for telescope owners wanting to improve their skills and make observations of real and lasting scientific value **Seeing in the Dark** Timothy Ferris, 2012-12-18 In *Seeing in the Dark* a poetic love letter to science and to the skies Timothy Ferris invites us all to become stargazers He recounts his own experiences as an enthralled lifelong amateur astronomer and reports from around the globe from England and Italy to the Florida Keys and the Chilean Andes on the revolution that's putting millions in touch with the night sky In addition Ferris offers an authoritative and engaging report on what's out there to be seen what Saturn the Ring nebula the Silver Coin galaxy and the Virgo supercluster really are and how to find them The appendix includes star charts observing lists and a guide on how to get involved in astronomy Ferris takes us inside a major revolution sweeping astronomy as lone amateur astronomers in global networks linked by the Internet make important discoveries that are the envy of the professionals His ability to describe the wonders of the universe is simply magical and his enthusiasm for his subject is irresistible *Star and Sky* Judith Dunham, 2000 A new series of travel guides designed for a growing market of adventurers This innovative series boasts a unique approach to travel planning that combines stunning imagery and practical information including history culture tips and techniques with profiles of the best most exciting interest specific destinations A Buyer's and User's Guide to Astronomical Telescopes & Binoculars James

Mullaney, 2007-05-26 Both beginning novice amateur astronomers at the level of *Astronomy* and *Night Sky* magazine readers as well as more advanced amateur astronomers level of *Sky and Telescope* will find this book invaluable and fascinating It includes detailed up to date information on sources selection and use of virtually every major type brand and model of such instruments on today's market The book also includes details on the latest released telescope lines e.g. the 10 12 14 and 16 inch aperture models of the Meade LX R series As a former editor for *Sky Telescope Astronomy* and *Star Sky* magazines the author is the ideal person to write this book New Views of the Solar System Encyclopaedia Britannica, Inc., 2013-01-01 Are you up to date on the solar system When the International Astronomical Union redefined the term planet Pluto was downgraded to a lower status *New Views of the Solar System* 2013 looks at scientists changing perspectives with articles on

Pluto the eight chief planets and dwarf planets new missions updates for ongoing missions newly discovered moons and updated tables Brilliant photos and drawings showcase the planets asteroids comets and more providing a stunning collection of vivid images **Mercury** ,2004 Mercury gives informed perspectives on salient issues in research education history and public policy relating to astronomy **COMETS!** David J. Eicher,2013-09-23 Join David J Eicher in this fast paced and entertaining journey through the history present and future of these important yet mysterious cosmic bodies From ancient times humans have been fascinated by broom stars and blazing scimitars lighting up the sky and moving against the fixed background of stars The Great Comets of our time still receive in depth attention ISON Hale Bopp Hyakutake West and others while recent spacecraft encounters offer amazing insight into the earliest days of the solar system In this guide you will discover the cutting edge science of what comets are how they behave where they reside how groups of comets are related and much more The author carefully explores the ideas relating comets and life on Earth and the danger posed by impacts He finishes with practical how to techniques tips and tricks on how to successfully observe comets and even to capture your own images of them *Astronomy in Depth* Gerald North,2012-12-06 Astronomy in Depth fills the need for a textbook that covers pre university level Astronomy courses in the UK the GCSE syllabuses and provides numerical examples to help students It is also written as a serious foundation in Astronomy for amateurs who want to take a more detailed approach than can be found in the bulk of introductory astronomy books Almost every aspect of astronomy is considered from Earth and its place in the solar system through instrumentation the planets stars and galaxies to black holes and the beginnings of cosmology This book is perfect for anyone who wants to get to know astronomy in detail as quickly as possible

Hands-On Astronomy Hervé Burillier,Christophe Lehenaff,2002-04-11 There is a vast range of astronomical equipment currently available to the amateur astronomer This handbook presents the variety of telescopes binoculars and accessories on the market to help the amateur make an informed choice when buying equipment All selection criteria are taken into account including level of experience budget and observation site Indispensable to those with a passion for practical astronomy this handbook will help the complete beginner making his first purchase and provide advice for the more experienced amateur wishing to upgrade his equipment **Astronomy Explained** Gerald North,2012-12-06 Every year large numbers of people take up the study of astronomy mostly at amateur level There are plenty of elementary books on the market full of colourful photographs but lacking in proper explanations of how and why things are as they are Many people eventually wish to go beyond the coffee table book stage and study this fascinating subject in greater depth This book is written for them In addition many people sit for public examinations in this subject each year and this book is also intended to be of use to them All the topics from the GCSE syllabus are covered here with sample questions at the end of each chapter Astronomy Explained provides a comprehensive treatment of the subject in more depth than is usually found in elementary works and will be of interest to both amateur astronomers and students of astronomy *American Book Publishing Record*

,2003

Whispering the Techniques of Language: An Mental Quest through **Observing The Solar System Gerald North**

In a digitally-driven earth where screens reign supreme and quick communication drowns out the subtleties of language, the profound techniques and emotional nuances concealed within words usually get unheard. However, located within the pages of **Observing The Solar System Gerald North** a charming fictional treasure pulsating with natural emotions, lies an exceptional quest waiting to be undertaken. Published by a skilled wordsmith, this wonderful opus encourages visitors on an introspective journey, softly unraveling the veiled truths and profound affect resonating within ab muscles fabric of each word. Within the emotional depths with this poignant evaluation, we can embark upon a honest exploration of the book is key themes, dissect its interesting writing fashion, and yield to the strong resonance it evokes deep within the recesses of readers hearts.

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