

The Backyard Astronomer's Guide

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Astronomical Sketching: A Step-by-Step Introduction
Compendium of Practical Astronomy
The Sky
The Data Book of Astronomy
A Guide to Astronomy
The Universe Today
Ultimate Guide to Viewing the Cosmos
Astronomy
A Text-book of Geodetic Astronomy
The Ever-Changing Sky
The Night Sky Companion
Cambridge Astronomy Guide
A Text-book of General Astronomy for Colleges and Scientific Schools
Astronomy: a Handbook
The Geography of the heavens and class-book of astronomy
Our Universe
A Handbook of Descriptive Astronomy
Aeronautics and Space
Bibliography of Adult Aerospace Books and Materials
Observing the Solar System
A Laboratory Manual in Astronomy
Terence Dickinson Richard Handy Günter D. Roth David H. Levy Patrick Moore Lloyd Mallan David Dickinson Dinah L. Moché John Fillmore Hayford James B. Kaler Tammy Plotner William Liller Charles Augustus Young G.D. Roth Elijah Hinsdale Burritt Jo Dunkley George Frederick Chambers National Aerospace Education Council (U.S.) Gerald North Mary Emma Byrd

The Backyard Astronomer's Guide Astronomical Sketching: A Step-by-Step Introduction Compendium of Practical Astronomy The Sky The Data Book of Astronomy A Guide to Astronomy The Universe Today Ultimate Guide to Viewing the Cosmos Astronomy A Text-book of Geodetic Astronomy The Ever-Changing Sky The Night Sky Companion Cambridge Astronomy Guide A Text-book of General Astronomy for Colleges and Scientific Schools Astronomy: a Handbook The Geography of the heavens and class-book of astronomy Our Universe A Handbook of Descriptive Astronomy Aeronautics and Space Bibliography of Adult Aerospace Books and Materials Observing the Solar System A Laboratory Manual in Astronomy Terence Dickinson Richard Handy Günter D. Roth David H. Levy Patrick Moore Lloyd Mallan David Dickinson Dinah L. Moché John Fillmore Hayford James B. Kaler Tammy Plotner William Liller Charles Augustus Young G.D. Roth Elijah Hinsdale Burritt Jo Dunkley George Frederick Chambers National Aerospace Education Council (U.S.) Gerald North Mary Emma Byrd

discusses the practical aspects of stargazing including how to choose appropriate equipment contending with light pollution taking successful photographs of galaxies and nebulas and selecting an observing site

if you have ever gazed through the eyepiece of a telescope at the magnificent rings and banded globe of saturn or found yourself breathless at the sight of long shadows jutting across crater floors on the terminator of the moon then you will

understand the power of those direct visual experiences you are present at a unique event a connection between a part of the cosmos your eye and brain sketching preserves this tie with direct observation because it allows the observer to spend time at the eyepiece surveying the object intimately while drawing this personal experiential relationship to celestial objects differentiates astronomical sketching from photographic or ccd imaging sketching is an excellent way to record personal encounters with the celestial wonders because as you are drawing you are training your eye to perceive ever greater detail taking the fullest advantage of your telescope s light grasp and resolution moreover astronomical sketches can be artwork in themselves for display and decoration in the home or observatory despite the fact that there are a wide variety of drawing media and techniques there exists no comprehensive treatment of the subject of astronomical sketching this book will present the amateur with fine examples of astronomical sketches and step by step tutorials in each medium including pencil pen and ink chalks and pastels painting and computer graphics programs this unique book can teach almost anyone to create beautiful sketches of celestial objects by following simple illustrated step by step instructions readers can select a chapter related to their preferred class of object and rapidly learn techniques in several media each chapter contains useful information regarding equipment types of telescope and eyepiece combinations techniques for preserving and archiving sketches and suggestions for accurate record keeping

it is a pleasure to present this work which has been well received in german speaking countries through four editions to the english speaking reader we feel that this is a unique publication in that it contains valuable material that cannot easily if at all be found elsewhere we are grateful to the authors for reading through the english version of the text and for responding promptly for the most part to our queries several authors have supplied us on their own initiative or at our suggestion with revised and updated manuscripts and with supplementary english references we have striven to achieve a translation of handbuch for sternfreunde which accurately presents the qualitative and quantitative scientific principles contained within each chapter while maintaining the flavor of the original german text where appropriate we have inserted footnotes to clarify material which may have a different meaning and or application in english speaking countries from that in germany when the first english edition of this work astronomy a handbook translated by the late a beer appeared in 1975 it contained 21 chapters this new edition is over twice the length and contains 28 authored chapters in three volumes at springer s request we have devised a new title compendium of practical astronomy to more accurately reflect the broad spectrum of topics and the vast body of information contained within these pages

introduces beginners to amateur astronomy describes what to look for and when

beginning with the solar system and moving on to the stars and offers suggestions for better observations

filled with data about the earth moon the planets the stars our galaxy and the myriad galaxies in deep space this invaluable resource reveals the latest scientific discoveries about black holes quasars and the origins of the universe it includes maps supported by detailed tables of the names positions magnitudes and spectra of the main stars in each constellation along with key data on galaxies nebulae and clusters mnassa wrote this book fills a niche with detailed astronomical data and concise explanations all at an accessible level it is an excellent resource and probably will be the first book i shall reach for

the definitive resource for viewing the night sky david dickinson earth science teacher and backyard astronomer and fraser cain publisher of universe today have teamed up to provide expert guidance on observing the night sky the universe today ultimate guide to viewing the cosmos features the best tips and tricks for viewing our solar system and deep sky objects as well as detailed charts graphs and tables to find must see events for years to come this comprehensive guide is complete with stunning and exclusive photography from top night sky photographers as well as advice on how to take your own incredible photos take your recreational viewing to the next level with activities like finding comets and asteroids tracking variable stars monitoring meteor showers following solar activity tracking satellites timing lunar and asteroid occultations with star charts practical background information technological resources and telescope and astrophotography guides this is the ultimate resource for any backyard space enthusiast

discover the wonders of the night sky with this bestselling astronomy guide for a generation astronomy a self teaching guide has introduced hundreds of thousands of readers worldwide to the night sky now this classic beginner's guide has been completely revised to bring it up to date with the latest discoveries updated with the latest most accurate information and more than 100 new graphics and photos this seventh edition features site addresses throughout for the best color images and astronomy resources online technical ideas made simple without mathematics a beautiful new full color glossy insert with spectacular astro images an interactive format with learning goals reviews self tests and answers for fast learning five beginners star and moon maps for fun stargazing dinah l moché ph d is professor of physics and astronomy at the city university of new york an award winning author and lecturer her books have sold over ten million copies in seven languages

the ever changing sky provides a comprehensive and non mathematical guide to

spherical astronomy the reader is guided through terrestrial and celestial coordinate systems time measurement and celestial navigation to the prediction of the rising and setting of the stars sun and moon it focuses on the geometrical aspects of the night sky without using complex trigonometry the book progresses to a general study of the earth and sky including the stars and constellations with useful star maps provided the motions and appearance of the moon tides and eclipses the orbits of the planets and the smaller bodies of the solar system asteroids meteors meteorites and comets finally there is a brief overview of atmospheric phenomena including rainbows and haloes this text will be invaluable to students taking courses in naked eye astronomy amateur and professional astronomers as well as more general readers wanting to know how the night sky changes

t plotner the night sky companion doi 10 1007 978 0 387 79509 6 1 1 springer science+business media llc 2009 2 thenightskycompanion welcome fellowtravelertothestars forthenextyearwewilltakeajourneytogetheracrossthenight sky in these pages you will find lunar features planets meteor showers single and multiple stars open and globular clusters as well as distant galaxies there will be astronomy history to explore famous astronomers to meet and science to learn you ll find things here for those who enjoy stargazing with just their eyes binoculars or even the largest of telescopes although these observing tips are designed with all readers in mind not everyone lives in the same time zone or the same hemisphere and certainly no one has clear skies every night but no matter where you live or who you are it is my hope that somewhere here you find something of interest to keep you looking up learningthenight sky if you are new to astronomy it might seem difficult to learn all those stars relax it s much easier than you think just like moving to a new city everything will seem unfamiliar at first but with a little help from some maps you ll soon be finding your way around like a pro once you become familiar with the constellations and how they appear to move across the night sky the rest is easy if you do not have maps of your own try visiting your local library or one of many online sites thatcangeneratethem theygiveobjectpositionsingreatdetail andmosthaveakeyofgreekletters to help you understand star hop instructions

the cambridge astronomy guide is intended for lovers of astronomy who wish to do more than just look at the night sky or marvel at glossy pictures of it it tells you how to get outside and actually practise astronomy even if you own nothing more than a simple camera astronomy more than any other science offers amateurs the opportunity to make meaningful and lasting contributions to the field this guide explains in simple non mathematical terms how you can take stunning star photographs and then put them to use making valuable contributions to the science of astronomy ben mayer s odd numbered chapters provide a fascinating

account told with much humour of how one raw amateur got started and quickly progressed to become one of the world s best known and in many ways most successful amateur astronomers bill liller s even numbered chapters provide a more extensive commentary on much of what ben writes plus some additional material which gives the professional point of view

several decades have elapsed since the publication of any similar book in the german language the lack of such a book has been felt keenly by all friends of astronomy in our space age astronomical knowledge arouses public interest more and more practical observation at the telescope depends more than anything else on such knowledge the educational value of such a training is undisputed on the other hand the work of the amateur astronomer can also contribute essentially to the work of the professionals it is from these points of view that this handbook aims to help with versatile advice at the same time the book intends to show the wide range of applied astronomy as it presents itself to the friend of the stars in mathematical physical fields in precision mechanics and optics and last but not least in the area of social relations beyond the circle of amateur astronomers the book is addressed to lecturers teachers students and pupils it wishes to serve them as a guide to astronomical experiments which we suggest should be performed in primary and secondary schools specialist colleges and extramural courses

a bbc sky at night best astronomy and space book of the year a luminous guide to the cosmos jo dunkley swoops from earth to the observable limits then explores stellar life cycles dark matter cosmic evolution and the soup to nuts history of the universe nature a grand tour of space and time from our nearest planetary neighbors to the edge of the observable universe if you feel like refreshing your background knowledge this little gem certainly won t disappoint govert schilling bbc sky at night most of us have heard of black holes and supernovas galaxies and the big bang but few understand more than the bare facts about the universe we call home what is really out there how did it all begin where are we going jo dunkley begins in earth s neighborhood explaining the nature of the solar system the stars in our night sky and the milky way she traces the evolution of the universe from the big bang fourteen billion years ago past the birth of the sun and our planets to today and beyond she then explains cutting edge debates about such perplexing phenomena as the accelerating expansion of the universe and the possibility that our universe is only one of many our universe conveys with authority and grace the thrill of scientific discovery and a contagious enthusiasm for the endless wonders of space time

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

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