

The Backyard Astronomer's Guide

The Backyard Astronomer's Guide An Astronomer's Tale The Urban Astronomer's Guide The Universe Today Ultimate Guide to Viewing the Cosmos A Down to Earth Guide to the Cosmos Star Ware Summer Stargazing The Sky Observer's Guide Cambridge Astronomy Guide NightWatch The Ever-Changing Sky Astronomical Sketching: A Step-by-Step Introduction Our Universe The Sky The Amateur Astronomer's Guide to the Deep-Sky Catalogs Compendium of Practical Astronomy A Handbook of Descriptive and Practical Astronomy: Instruments and practical astronomy A Visual Astronomer's Photographic Guide to the Deep Sky Astronomy: a Handbook A Handbook of Descriptive Astronomy Terence Dickinson Gary Fildes Rod Mollise David Dickinson Mark Thompson Philip S. Harrington Terence Dickinson R. Newton Mayall William Liller Terence Dickinson James B. Kaler Richard Handy Jo Dunkley David H. Levy Jerry D. Cavin G nter D. Roth George Frederick Chambers Stefan Rumistrzewicz G.D. Roth George Frederick Chambers The Backyard Astronomer's Guide An Astronomer's Tale The Urban Astronomer's Guide The Universe Today Ultimate Guide to Viewing the Cosmos A Down to Earth Guide to the Cosmos Star Ware Summer Stargazing The Sky Observer's Guide Cambridge Astronomy Guide NightWatch The Ever-Changing Sky Astronomical Sketching: A Step-by-Step Introduction Our Universe The Sky The Amateur Astronomer's Guide to the Deep-Sky Catalogs Compendium of Practical Astronomy A Handbook of Descriptive and Practical Astronomy: Instruments and practical astronomy A Visual Astronomer's Photographic Guide to the Deep Sky Astronomy: a Handbook A Handbook of Descriptive Astronomy *Terence Dickinson Gary Fildes Rod Mollise David Dickinson Mark Thompson Philip S. Harrington Terence Dickinson R. Newton Mayall William Liller Terence Dickinson James B. Kaler Richard Handy Jo Dunkley David H. Levy Jerry D. Cavin G nter D. Roth George Frederick Chambers Stefan Rumistrzewicz G.D.*

Roth George Frederick Chambers

the modern classic completely updated the newest edition of the backyard astronomer s guide includes the latest data and answers the questions most often asked by home astronomers from beginners to experienced stargazers terence dickinson and alan dyer provide expert guidance on the right types of telescopes and other equipment photographing the stars through a telescope and star charts software and other references they cover daytime and twilight observing planetary and deep sky observing and much more with over 500 color photographs and illustrations the backyard astronomer s guide is one of the most valuable beautiful and user friendly astronomy books ever produced new and updated for this edition a 20 page full color atlas of the milky way provides location and context for hundreds of celestial objects mentioned throughout the book a chapter on astrophotography with digital cameras specifies what equipment works best and how to use it to collect a color gallery of celestial portraits telescopes for recreational astronomy features assessments of a wide range of new telescopes from models for beginners to those for veteran astronomy enthusiasts with special emphasis on computerized telescopes and how they work accessory catalog spotlights the best of the accessories and flags the frivolous and irrelevant three practical appendices polar aligning your telescope optics cleaning and collimation testing your telescope optics any serious home astronomer must have this superb guide as an ongoing reference

a bricklayer s guide to the galaxy the inspirational memoir of a former brickie who followed his passion for the stars and built his own observatory perfect for readers of robert macfarlane helen macdonald and james rebanks as well as fans of brian cox and the bbc s sky at night gary fildes left school at sixteen got a trade like most of his mates and was soon married with four kids his life seemed set but he had a secret something he only practised late at night with a few like minded friends then one day middle age approaching alarmingly he acted on his lifelong passion he finally came out as an astronomer today gary is the founder and lead astronomer of kielder observatory

one of the top ten stargazing sites in the world which he also helped to build situated in the beautiful forests of kielder northumberland within europe s largest protected dark sky park it offers some of the uk s most spectacular views of stars planets and galaxies an astronomer s tale is gary s inspirational story part memoir part nature writing part seasonal guide to the night sky it is a book brimming with passion and at a time when the world is captivated by space it will leave you ready to get out there and explore the wonders of the skies for yourself

most amateur astronomers yearn to observe more frequently many of them however live in urban and highly developed suburban areas that are heavily light polluted due to this light pollution they are under the impression that deep sky objects nebulae galaxies star clusters are either invisible or not worth viewing from home this book describes the many objects that can be seen in a bright urban sky and shows the city or suburban astronomer how to observe object after object season after season this book covers the why how and what of astronomy under light polluted skies the prospective city based observer is told why to observe from home there are hundreds of spectacular objects to be seen from the average urban site how to observe the city sky telescopes accessories and moderns techniques and what to observe about 50 of the book is devoted to describing tours of the sky with physical and observational descriptions at the eyepiece drawings and photographs

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

to the beginner the star filled night sky can seem mysterious and unfathomable but with this book as a guide the awesome nature of the cosmos is brought down to earth over the course of twelve chapters mark thompson one of the presenters on bbc one's the sky at night and the resident astronomer on itv's the sky at night will take you on a journey through space tackling the key concepts of astronomy and unlocking the secrets of the sky from the origins of our universe to the ever evolving techniques used to explore deep space a down to earth guide to the cosmos traces the journey of galactic discovery that has obsessed mankind for thousands of years accompanying the narrative a series of monthly sky guides focus on the astronomical highlights visible at each given time of year with handy charts to show you exactly what to look for and how to navigate around the sky at night as fascinating as it is accessible a down to earth guide to the cosmos is a must for anyone who gazes up and wishes they knew more about the final frontier

this is the third edition of phil harrington's popular and comprehensive guide to astronomical equipment written for both new astronomers as well as experienced amateurs it includes numerous tips and tricks from other experienced astronomers in this revised and updated edition of star ware the essential guide to buying astronomical equipment award winning astronomy writer philip harrington does the work for you analyzing and exploring today's astronomy market and offering point by point comparisons of everything you need whether you're an experienced amateur astronomer or just getting st

an abundantly illustrated guide to the year's best stargazing season summer brings with it fine stargazing weather it also happens to be the time of the year when our galaxy

the milky way arches high across the sky terence dickinson the cool clear nights from may to october offer astronomers the best opportunities for stargazing few sights in nature can compare with the splendor of a dazzling star filled sky summer stargazing captures the grandeur of the universe with down to earth simplicity all that is needed is a reasonably dark night sky a pair of binoculars or a simple telescope and this book the book features everything else the amateur astronomer needs including easy to use color star charts that cover the entire north american sky for one year and photographic quality charts for this main stargazing season with summer stargazing astronomers can delve into the majesty of the starry night to explore planets of the solar system galaxies remote star forming nebulas glittering star dusters and more helpful advice is given for safely viewing special phenomena such as eclipses and auroras summer stargazing is both a stargazing guide and a pictorial celebration of the summer night sky

filled with practical information for the amateur astronomer this golden guide explains how to select and use binoculars and telescopes how to best observe stars the moon planets comets meteors and other celestial objects how to use star charts profusely illustrated with photographs diagrams charts and tables this guide is recommended by leading astronomers

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

a practical guide to viewing the universe

the ever changing sky provides a comprehensive and non mathematical guide to spherical astronomy the reader is guided through terrestrial and celestial co ordinate 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

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

a world renowned astrophysicist takes us through the huge unfolding history of the universe the night sky is an endless source of wonder and mystery for thousands of years it has been at the heart of scientific and philosophical inquiry from the first star catalogues etched into ancient mesopotamian clay tablets to the metres wide telescopes constructed in chile s atacama desert today on a clear night it is hard not to look up and pick out familiar constellations and to think of the visionary minds who pioneered our understanding of what lies beyond in this thrilling new guide to our universe and how it works professor of astrophysics jo dunkley reveals how it only becomes more beautiful and exciting the more we discover about it with warmth and clarity dunkley takes us from the very basics why the earth orbits the sun and how our moon works right up to massive strange phenomena like superclusters quasars and the geometry of spacetime as she does so dunkley unfurls the history of humankind s heroic journey to understand the history and structure of the cosmos revealing the extraordinary little known stories of astronomy pioneers including williamina fleming vera rubin and jocelyn bell burnell illuminating and uplifting this is your essential guide to the biggest subject of all

this is an ideal book for starting astronomy it stirs the imagination and puts observation of the sky into the framework of leisure activity as well as a personal adventure written

by an award winning astronomer it is a non technical guide to the night sky full of practical hints the author s lively style entuses entertains and informs know the constellations even if you live in a large city observe the sun safely find out how comets are discovered watch a star vary in brightness from week to week explore star clusters and remote galaxies author david levy is one of the world s foremost amateur astronomers he has discovered 17 comets minor planet 3673 levy is named in his honour an english graduate levy has written a beautiful introduction to the glories of the observable universe of constellations stars and galaxies

every amateur astronomer has at least heard of the many different catalogs of deep sky objects the most well known are the messier the caldwell the herschel and the ngc all of these catalogs are in general readily available but very few amateur observers are in a position to choose the best catalog for their particular deep sky observing program know how to use the catalog or even realize just how many there are out there the amateur astronomer s guide to the deep sky catalogs is a single compilation of the historical and modern astronomical deep sky catalogs it discusses their origins compares what s in them explains how to interpret the data they contain and even outlines how readers can create suitable custom catalogs for their own use the last section provides a set of three deep sky catalogs created by the author for observers of different levels of experience from newcomer to expert

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

over the last 15 years or so there has been a huge increase in the popularity of astrophotography with the advent of digital slr cameras and ccd imagers these have enabled astronomers to take many images and indeed check images as they scan the skies processing techniques using computer software have also made developing these images more accessible to those of us who are chemically challenged and let s face it some of the pictures you see these days in magazines books and on popular web forums are frankly amazing so why bother looking through the eyepiece you ask well for one thing setting up the equipment is quicker you just take your scope out of the garage or if you re lucky enough to own one open the roof of your observatory align the scope and off you go if you have an equatorial mount you ll still need to roughly polar align but this really takes only a few moments the imager would most likely need to spend more time setting up this would include very accurate polar alignment for equatorial mounts then finding a guide star using his or her finder checking the software is functioning properly and c tinuous monitoring to make sure the alignment is absolutely precise throu out the imaging run that said an imager with a snug obsy at the end of the garden will have a quicker time setting up but then again so will the visual observer

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

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