

Sky Catalogue 2000.0

Volume 2
Double Stars, Variable Stars
and Nonstellar Objects

Edited by
Alan Hiestand and
Roger W. Sinnott

Sky Catalogue 20000 Double Stars Variable Stars And Nonstellar Objects Sky Catalogue

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Sky Catalogue 2000.0: Volume 2, Galaxies, Double and Variable Stars, and Star Clusters Alan Hirshfield, Roger W. Sinnott, 1985-04-26 This is a standard reference work for telescope users which gives positional and other data for galaxies double and variable stars and star clusters This companion to Volume One includes comprehensive tables on 20 000 objects Comprehensive treatment is given for each object position for epoch 2000 0 magnitudes in the UBV photometric system color index surface brightness and Hubble classification for galaxies and many other characteristics This is a re issue of a book first published in 1985 which has been out of print for several years It has been made available again in response to many requests from users of Sky Catalogue 2000 0 Volume 1 McGraw-Hill Encyclopedia of Astronomy Sybil P. Parker, Jay M. Pasachoff, 1993 Articles on the theoretical observational and experimental aspects of basic astronomy information on the tools used to collect the data and color plates **Deep Sky**, 1990 **Space Science & Applications Notice**, 1984-10

Grants and Awards for the Fiscal Year Ended ... National Science Foundation (U.S.), 1977 *Grants and Awards for Fiscal Year...* National Science Foundation (U.S.), 1977 Double & Multiple Stars, and How to Observe Them James Mullaney, 2005-11-22 You are holding in your hands dear Reader your passport to an exciting cosmic adventure exploring the universe of double and multiple stars These are the sky s tinted jewels and waltzing couples and they are waiting patiently in the darkness of night to dazzle and delight you This is actually two books in one The rst part surveys the current state of knowledge about double stars how they are born evolve and interact their signi cance in the cosmic scheme of things and the valuable insights they provide into such fundamental matters as stellar masses and the ultimate fate of stars The more we know about these fascinating objects the more enjoyment we will ul mately derive from actually viewing them rsthand with binoculars and telescopes from our gardens or backyards or elds As Charles Edward Barns stated in his long out of print classic 1001 Celestial Wonders Let me learn all that is known of them Love them for the joy of loving For as a traveler in far countries Brings back only what he takes So shall the scope of my foreknowledge Measure the depth of their pro t and charm to me **Astronomical Catalogues of Stars** Source Wikipedia, 2013-09 Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online Pages 24 Chapters Aitken Double Star Catalogue Astronomische Gesellschaft Katalog Boss General Catalogue Bright Star Catalogue Burnham Double Star Catalogue Cape Photographic Catalogue Carte du Ciel Catalogues of Fundamental Stars Catalogue of rotational velocities of the stars Catalog of 5 268 Standard Stars Based on the Normal System N30 Catalog of Components of Double and Multiple Stars Catalog of Nearby Habitable Systems Catalog of Stellar Identifications Durchmusterung General Catalogue of Stellar Radial Velocities General Catalogue of Variable Stars Gliese Catalogue of Nearby Stars Guide Star Catalog Hamburg ESO Survey Henry Draper Catalogue Histoire Celeste Francaise Hubble Guide Star Catalog Astrographic Catalog Tycho Index Catalogue of Visual Double Stars JP11 Kepler Input Catalog Kepler Object of Interest List of astronomical catalogues List of stars in the

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binocular telescope Objects in the book are organized by position for easy identification of unknown targets Full indexes by catalog numbers and names allow searches for specific objects *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 Two-micron Sky Survey Gerry Neugebauer, 1969 *The Revised New General Catalogue of Nonstellar Astronomical Objects* Jack W. Sulentic, William G. Tifft, 1973 This book is an updated version of J L E Dreyer's New General Catalogue of Nebulae and Clusters of Stars 1864 In producing this much needed work the authors have greatly revised corrected and enlarged the following useful information for each entry NGC identification number type of object on the Palomar Sky Survey magnitude of object source of magnitude visual appearance of object transcribed from Dreyer Palomar Sky Survey description of each object and cross references for RNGC objects Published 1973 Concise Catalog of Deep-Sky Objects Warren H. Finlay, 2014-06-04 This book is for the amateur astronomer who wants to know about the astrophysical nature of deep sky objects The information is presented in a concise format and is equally valuable when used as background reading or alternatively at the telescope eyepiece The past decades have seen an unprecedented increase in professional astronomers understanding of astronomical objects However generally this information is contained in journal publications that most amateur astronomers either do not have access to or would find difficult to read In this book basic data on each object e g magnitude location distance age if known is presented in a way that allows the reader to quickly access the information This is followed by some remarks that capture the most fascinating astrophysical facts Although there are thousands of deep sky objects observed by astronomers only a small number of these are commonly observed by a wide audience Thus coverage here is limited to approximately 500 of the most commonly observed objects in the Northern Hemisphere and an enhancement for the Second Edition approximately 50 of those in the Southern Hemisphere These are visible from the southern limits of the United States as well as from the southern continents Another new feature of the Second Edition is the addition of amateur photographic images of all the Messier objects **An Anthology of Visual Double Stars** Bob Argyle, Mike Swan, Andrew James, 2019-08-29 Modern telescopes of even modest aperture can show thousands of double stars Many are faint and unremarkable but hundreds are worth searching out Veteran double star observer Bob Argyle and his co authors take a close up look at their selection of 175 of the night sky's most interesting double and multiple stars The history

of each system is laid out from the original discovery to what we know at the present time about the stars Wide field finder charts are presented for each system along with plots of the apparent orbits and predicted future positions for the orbital systems Recent measurements of each system are included which will help you to decide whether they can be seen in your telescope as well as giving advice on the aperture needed Double star observers of all levels of experience will treasure the level of detail in this guide to these jewels of the night sky 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 **Seeing Stars** C. R. Kitchin,Robert W. Forrest,1997-11-17 This

essential and highly illustrated guide is for anyone taking their first steps in observational astronomy It shows what you can expect to see helping you get the most from your equipment This unique book gives amateurs the guidance and assurance they need to become more proficient observers **David Levy's Guide to Variable Stars** David H. Levy,2005-12-15 Variable stars are fascinating objects to observe found all over the sky they change in brightness over time and can be seen with even the most basic of equipment Variable star astronomy is one field in which amateur astronomers can still make significant contributions to science and in this highly accessible book David Levy teaches the reader how variable stars work and how to observe them Using simple non technical terms he explains how to get started with electronic or CCD observing as well as how to observe variable stars through a small telescope or binoculars Including a section on Southern hemisphere stars the book covers various types of object that can be observed by amateur astronomers including more exotic phenomena like gamma ray bursts blazars and polars This book will serve to motivate anyone with even a basic interest in astronomy to begin observing these fascinating objects

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web compiled by g izquierdo rodríguez page 2 1 directly proportional to the product of their charges $f \propto q_1 q_2$ inversely proportional to square of the distance between them $f \propto \frac{1}{r^2}$ therefore $f \propto \frac{q_1 q_2}{r^2}$ coulomb's law in symbols $F = k \frac{q_1 q_2}{r^2}$ coulomb's law the magnitude of the electrostatic force exerted by one point charge q

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web answer d somewhere in region d justification with the test charge and c 1 being negative there is a repulsive force on the test charge to the right from c 2 there is an attractive force on the test charge to the left by referring to coulomb s law $\frac{1}{r^2}$ we know that the force

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