

Gérard de Vaucouleurs Antoinette de Vaucouleurs
Harold G. Corwin, Jr. Ronald J. Buta
Georges Paturel Pascal Fouqué

Third Reference Catalogue of Bright Galaxies

Volume II



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Reference Catalogue Of Bright Galaxies V 13

Martin V. Zombeck



Reference Catalogue Of Bright Galaxies V 13:

Second Reference Catalogue of Bright Galaxies Gérard De Vaucouleurs, Antoinette de Vaucouleurs, Harold G. Corwin, 1976 *Handbook of Space Astronomy and Astrophysics* Martin V. Zombeck, 2006-11-09 Fully updated and including data from space based observations this Third Edition is a comprehensive compilation of the facts and figures relevant to astronomy and astrophysics As well as a vast number of tables graphs diagrams and formulae it also includes a comprehensive index and bibliography allowing readers to easily find the information they require The book contains information covering a diverse range of topics in addition to astronomy and astrophysics including atomic physics nuclear physics relativity plasma physics electromagnetism mathematics probability and statistics and geophysics This handbook contains the most frequently used information in modern astrophysics and will be an essential reference for graduate students researchers and professionals working in astronomy and the space sciences A website with links to extensive supplementary information and databases can be found at www.cambridge.org/9780521782425 *An Atlas of Selected Galaxies* Sunggyu Takase, 2023-01-06 It is only several decades since galaxies were recognized as huge aggregations of matter in the universe which consist of myriads of stars and vast clouds of gas The wide variety of shapes of galaxies is one of the wonders of the universe Attempts to classify galaxies have continued since an early stage of study when they were still called nebulae The first step towards classification was a grouping of the patterns the second step a systematic arrangement of various morphological types Classification schemes that are in present use such as Hubble's are in the second group These classifications are usually based on pattern recognition after a visual inspection of the photographic image of the galaxy and is therefore qualitative and more or less subjective Using surface photometry of galaxies a technique which has advanced remarkably in recent years photographs of galaxies taken in several colour bands can now be efficiently reduced to photometric data Analysis of this data gives quantitative information on the luminosity and colour distribution for every element of galaxies The Atlas of Selected Galaxies presents photographs taken with the Okayama 188 cm reflector and the Kiso 105 cm Schmidt telescope for the purpose of photometric analysis A large number of illustrations are given to demonstrate the way in which photographs of galaxies are reduced into quantitative data These illustrations also show some representative results obtained in the course of the editors work on the quantitative classification of galaxies Part I General Description of the Classification and Photometric Analyses includes eight sections whose authors all shared the photometric work and prepared the photographs In Part II The Atlas the illustrations are arranged in sections corresponding to those in Part I Part III includes tables of data for the atlas [NASA Reference Publication](#), 1987 *Particle Physics and Cosmology: Dark Matter* M. Srednicki, 2012-12-02 At least eighty percent of the mass of the universe consists of some material which unlike ordinary matter neither emits nor absorbs light This book collects key papers related to the discovery of this astonishing fact and its profound implications for astrophysics cosmology and the physics of elementary particles The book

focuses on the likely possibility that the dark matter is composed of an as yet undiscovered elementary particle and examines the boundaries of our present knowledge of the properties such a particle must possess Publications of the United States Naval Observatory United States Naval Observatory,1971

Astrophysical Formulae Kenneth Lang,2013-11-11 This book is meant to be a reference source for the fundamental formulae of astrophysics Wherever possible the original source of the material being pre sented is referenced together with references to more recent modifications and applications More accessible reprints and translations of the early papers are also referenced In this way the reader is provided with the often ignored his torical context together with an orientation to the more recent literature Any omission of a reference is of course not meant to reflect on the quality of its contents In order to present a wide variety of concepts in one volume a concise style is used and derivations are presented for only the simpler formulae Ex tensive derivations and explanatory comments may be found in the original references or in the books listed in the selected bibliography which follows Following the convention in astrophysics the C g S centimeter gram second system of units is used unless otherwise noted To conserve space the funda mental constants are not always defined and unless otherwise noted the fol lowing symbols have the following meaning and value

Symbol	Meaning	Value
c	Speed of light in vacuum	$2.997924562 \times 10^{10}$ cm S l h 2nh
h	Planck s constant	6.626196×10^{-27} erg s
k	Rationalized Planck s constant	$1.0545919 \times 10^{-27}$ erg s h h 2n k
k	Boltzmann s constant	1.380622×10^{-16} erg K 1 4

Astrophysical Formulae Kenneth R. Lang,2013-06-29 This second edition contains corrections of misprints and errors found by the author as well as those suggested during the Russian translation of the first printing The Russian editors and translators who kindly supplied this material include V E CHERTOPRUD A G DOROSHEVICH V L HOHLOVA M Yu KHLOPOV D K NADIOZHIN L M ZERNOI I G PERSIANTSEV L A POKROVSKII A V ZASOV and Yu K ZEMTSOV Supplemental references for the period 1974 to 1980 have also been added as appendix where they are included under the headings of general references and specific references for each chapter Although specialized references come mainly from American journals references to reviews and books are also included to help guide the reader to other sources The author encourages suggestions for additions and corrections to possible future editions of this volume KENNETH R LANG Department of Physics Tufts University Medford Massachusetts January 1980

Preface This book is meant to be a reference source for the fundamental formulae of astrophysics Wherever possible the original source of the material being pre sented is referenced together with references to more recent modifications and applications More accessible reprints and translations of the early papers are also referenced In this way the reader is provided with the often ignored his torical context together with an orientation to the more recent literature Allen's Astrophysical Quantities Clabon Walter Allen,Arthur N. Cox,2000 This new fourth edition of Allen s classic Astrophysical Quantities belongs on every astronomer s bookshelf It has been thoroughly revised and brought up to date by a team of more than ninety internationally renowned astronomers and astrophysicists While it follows the basic format of the original this indispensable reference has grown to more than twice the

size of the earlier editions to accommodate the great strides made in astronomy and astrophysics It includes detailed tables of the most recent data on General constants and units Atoms molecules and spectra Observational astronomy at all wavelengths from radio to gamma rays and neutrinos Planetary astronomy Earth planets and satellites and solar system small bodies The Sun normal stars and stars with special characteristics Stellar populations Cataclysmic and symbiotic variables supernovae Theoretical stellar evolution Circumstellar and interstellar material Star clusters galaxies quasars and active galactic nuclei Clusters and groups of galaxies Cosmology As well as much explanatory material and extensive and up to date bibliographies **Catalog of Infrared Observations** Daniel Y. Gezari, 1987

Enjoying the Melody of Phrase: An Psychological Symphony within **Reference Catalogue Of Bright Galaxies V 13**

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