



Martin Harwit

Astrophysical Concepts

Second Edition



Springer Science+Business Media, LLC

Astrophysical Concepts Astronomy And Astrophysics Library

Michael Stix



Astrophysical Concepts Astronomy And Astrophysics Library:

Astrophysical Concepts Martin Harwit, 2012-12-06 Twenty five years have passed since the first edition of *Astrophysical Concepts* appeared. During this time astrophysics has undergone major revolutions. We have gained new perspectives on the Universe with the aid of powerful gamma ray, X ray and infrared telescopes whose sensitivities could not have been imagined a quarter century earlier. We have become expert at snaring neutrinos to gain insight on nuclear processes at work in the Sun and supernovae. We have direct evidence for the existence of neutron stars and gravitational waves and persuasive arguments for the detection of black holes on scales of individual stars as well as galactic nuclei. With so much that is new and so many new problems revealed by knowledge already gained, almost all parts of this book had to be reconsidered and rewritten. In the second edition which appeared ten years ago I had only added a chapter on the formation of galaxies, stars and planets. For this third edition such piecemeal measures no longer seemed appropriate. Much of the book has been completely revised. My principal aim in this third edition as before was to present a wide range of astrophysical topics in sufficient depth to give the reader a general quantitative understanding of the subject. The book outlines cosmic events but does not portray them in detail; it provides a series of astrophysical sketches. I think this approach still befits the prevailing uncertainties and rapidly evolving views in astrophysics.

Astrophysical Concepts Martin Harwit, 2013-03-14 My principal aim in writing this book was to present a wide range of astrophysical topics in sufficient depth to give the reader a general quantitative understanding of the subject. The book outlines cosmic events but does not portray them in detail; it provides a series of astrophysical sketches. I think this approach befits the present uncertainties and changing views in astrophysics. The material is based on notes I prepared for a course aimed at seniors and beginning graduate students in physics and astronomy at Cornell. This course defined the level at which the book is written. For readers who are versed in physics but are unfamiliar with astronomical terminology, Appendix A is included. It gives a brief background of astronomical concepts and should be read before starting the main text. The first few chapters outline the scope of modern astrophysics and deal with elementary problems concerning the size and mass of cosmic objects. However, it soon becomes apparent that a broad foundation in physics is needed to proceed. This base is developed in Chapters 4 to 7 by using as examples specific astronomical situations. Chapters 8 to 10 enlarge on the topics first outlined in Chapter I and show how we can obtain quantitative insights into the structure and evolution of stars, the dynamics of cosmic gases and the large scale behavior of the universe.

Astrophysics through Computation Brian Koberlein, David Meisel, 2013-06-28 This new text surveys a series of fundamental problems in astrophysics both analytically and computationally for advanced students in physics and astrophysics. The contents are supported by more than 110 class tested Mathematica notebooks allowing rigorous solutions to be explored in a visually engaging way. Topics covered include many classical and historically interesting problems enabling students to appreciate the mathematical and scientific challenges that have been overcome in the subject.

development The text also shows the advantages and disadvantages of using analytical and computational methods It will serve students professionals and capable amateurs to master the quantitative details of modern astrophysics and the computational aspects of their research projects Downloadable Mathematica resources available at www.cambridge.org/koberlein

The New Cosmos Albrecht Unsöld, Bodo Baschek, 2013-03-09 Astronomy astrophysics and space research have developed extensively and rapidly in the last few decades The new opportunities for observation afforded by space travel the development of high sensitivity light detectors and the use of powerful computers have revealed new aspects of the fascinating world of galaxies and quasars stars and planets The fourth completely revised edition of The New Cosmos bears witness to this explosive development It provides a comprehensive but concise introduction to all of astronomy and astrophysics It stresses observations and theoretical principles equally requiring of the reader only basic mathematical and scientific background knowledge Like its predecessors this edition of The New Cosmos will be welcomed by students and researchers in the fields of astronomy physics and earth sciences as well as by serious amateur astronomers

Astronomy Methods Hale Bradt, 2004 Astronomy Methods is an introduction to the basic practical tools methods and phenomena that underlie quantitative astronomy Taking a technical approach the author covers a rich diversity of topics across all branches of astronomy from radio to gamma ray wavelengths Topics include the quantitative aspects of the electromagnetic spectrum atmospheric and interstellar absorption telescopes in all wavebands interferometry adaptive optics the transport of radiation through matter to form spectral lines and neutrino and gravitational wave astronomy Clear systematic presentations of the topics are accompanied by diagrams and problem sets Written for undergraduates and graduate students this book contains a wealth of information that is required for the practice and study of quantitative and analytical astronomy and astrophysics

Astrophysics Processes Hale Bradt, 2008-09-25 Bridging the gap between physics and astronomy textbooks this book provides step by step physical and mathematical development of fundamental astrophysical processes underlying a wide range of phenomena in stellar galactic and extragalactic astronomy The book has been written for upper level undergraduates and beginning graduate students and its strong pedagogy ensures solid mastery of each process and application It contains over 150 tutorial figures numerous examples of astronomical measurements and 201 exercises Topics covered include the Kepler Newton problem stellar structure binary evolution radiation processes special relativity in astronomy radio propagation in the interstellar medium and gravitational lensing Applications presented include Jeans length Eddington luminosity the cooling of the cosmic microwave background CMB the Sunyaev Zeldovich effect Doppler boosting in jets and determinations of the Hubble constant This text is a stepping stone to more specialized books and primary literature Password protected solutions to the exercises are available to instructors at www.cambridge.org/9780521846561

Astrophysical Formulae Kenneth Lang, 2006-02-22 This classic reference for the fundamental formulae of physics and astrophysics has become part of nearly every astronomers and astrophysicists library A magnificent compendium OPTICA

ACTA ON THE FIRST EDITION **Astrophysical Formulae** Kenneth R. Lang, 2013-12-21 This volume is a reference source of fundamental formulae in physics and astrophysics In contrast to most of the usual compendia it carefully explains the physical assumptions entering the formulae All the important results of physical theories are covered electrodynamics hydrodynamics general relativity atomic and nuclear physics and so on Over 2100 formulae are included and the original papers for the formulae are cited together with papers on modern applications in a bibliography of over 1900 entries For this new edition a chapter on space time matter and cosmology has been included and the other chapters have been carefully revised Literature 1988, Part 1 U. Esser, H. Hefele, Inge Heinrich, W. Hofmann, D. Krahn, V. R. Matas, Dr. Lutz D.

Schmadel, G. Zech, 2013-11-11 From the reviews Astronomy and Astrophysics Abstracts has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Reviews 1 Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine 2 **Stellar Interiors** Carl J. Hansen, Steven D Kawaler, Virginia

Trimble, 2012-12-06 The rst edition of this text appeared in 1994 Shortly after the third printing our editor suggested that we attempt a second edition because new developments in stellar structure and evolution had made our original work outdated We the original authors CJH and SDK reluctantly agreed but with reservations due to the effort involved Our initial reluctance disappeared when we were able to convince cajole twist the arm of etc our new coauthor colleague Virginia Trimble to join us Welcome Virginia We i e all three of us hope that you agree that the present edition is a great improvement compared to the 1994 effort Our objectives in this edition are the same ones we set forth in 1994 What you will find is a text designed for our target audience the typical senior undergraduate or beginning graduate student in astronomy or astrophysics who wishes an overview of stellar structure and evolution with just enough detail to understand the general picture She or he can go on from there to more specialized texts or directly to the research literature depending on talent and interests To this end this text presents the basic physical principles without chasing all the interesting details For those of you familiar with the first edition you will find that some things have not been changed substantially F ma is still F ma while others definitely have For example Chapter 2 has been completely rewritten **Physics and Chemistry of Comets** Walter F.

Huebner,2012-12-06 As this excellent book demonstrates the study of comets has now reached the fascinating stage where we understand comets in general simply terms while at the same time we are uncertain about practically all the details of cometary nature structure processes and origin In every aspect even including dynamics a choice among several or many competing theories is made impossible simply by the lack of detailed knowledge The space missions snapshot studies of two comets particularly the one that immortalizes the name of Sir Edmund Halley have produced a huge mass of valuable new information and a number of surprises Nonetheless we face the tantalizing realization that we have obtained only a fleeting glance at two of perhaps a hundred billion or more comets with possibly differing natures origins and physical histories To my personal satisfaction comets seem to have discrete nuclei made up of dirty snowballs as I concluded four decades ago but perhaps they are more like frozen rubbish piles

The Sun Michael Stix,2012-12-06 As in all other fields of astronomy progress in instrumentation and observational techniques has in recent years brought a wealth of new information about the sun This introduction presents a complete overview of solar physics of what we know and would like to know The increasing number of observations of solar phenomena on neighbouring stars makes this book valuable not only for students specializing in solar physics but also for researchers interested in stellar structure and the solar stellar connection

Observational Astrophysics Pierre Lena,Francois Lebrun,Francois Mignard,2013-03-09 Written specifically for physicists and graduate students this textbook focuses on fundamental and sometimes practical limitations on the ultimate performance that an astronomical system may reach rather than presenting particular systems in detail This second edition has been entirely restructured and almost doubled in size in order to improve its clarity and to account for the great progress achieved in the last 15 years It deals with ground based and space based astronomy and their respective fields It presents the new generation of giant ground based telescopes with the new methods of optical interferometry and adaptive optics But it also presents the ambitious concepts behind space missions aimed for the next decades Avoiding particulars it covers the whole of the electromagnetic spectrum and touches upon the new astronomies becoming possible with gravitational waves and neutrinos

Modern Astrometry Jean Kovalevsky,2013-03-09 On the occasion of the second edition of the book it appeared necessary to update information that was already seven years old Astrometry has recorded tremendous advances during these last years so that in addition to correcting identified errors and misprints there are many major modifications Among the events that forced me to modify significantly the contents of the book the most important are the release of the Hipparcos and Tycho catalogues the introduction of CCD astrometry the decision of the International Astronomical Union to adopt a new celestial reference frame the dramatic improvement of accurate time and frequency standards the decision taken by space agencies to prepare several new space astrometry satellites and the development of optical interferometry The description and the consequences of these events have been included in this edition One of them is that a microsecond of arc or microarcsecond has become a widely used unit On the contrary the result was also that the importance of some

instruments such as astrolabes or transit circles has decreased. However I left but because their description unchanged not only for their historical interest newer techniques often use similar data reduction methods so that one can refer to them. Conversely some methods or instruments have evolved and new information is included. Finally many new references were added to the original list.

The Sun from Space Kenneth R. Lang, 2013-04-18 Our familiar but often inscrutable star exhibits a variety of enigmatic phenomena that have continued to defy explanation. Our book begins with a brief account of these unsolved mysteries. Scientists could not for example understand how the Sun's intense magnetism is concentrated into dark sunspots that are as large as the Earth and thousands of times more magnetic. Nor did they know exactly how the magnetic fields are generated within the Sun for no one could look inside it. Another long standing mystery is the million degree solar atmosphere or corona that lies just above the cooler visible solar disk or photosphere. Heat should not emanate from a cold object to a hotter one anymore than water should flow up hill. Researchers have hunted for the elusive coronal heating mechanism for more than half a century. The Sun's hot and stormy atmosphere is continuously expanding in all directions creating a relentless solar wind that seems to blow forever. The exact sources of the wind's components and the mechanisms of its acceleration to supersonic velocities also remained perplexing problems. The relatively calm solar atmosphere can be violently disrupted by powerful explosions filling the solar system with radio waves, X-rays and gamma rays and hurling charged particles out into space at nearly the speed of light.

Der neue Kosmos Albrecht Unsöld, Bodo Baschek, 2013-03-14 Astronomie, Astrophysik und Weltraumforschung haben innerhalb weniger Jahrzehnte eine geradezu explosive Entwicklung genommen. Die neuen Beobachtungsmöglichkeiten durch die Raumfahrt, die Entwicklung hochempfindlicher Computer haben uns neuartige Aspekte in der faszinierenden Welt der Galaxien und Quasare, der Sterne und Planeten erschlossen. Die vorliegende fünfte erweiterte Auflage des Neuen Kosmos, die bereits knapp drei Jahre nach der vierten völlig neubearbeiteten Auflage erscheint, trägt dieser ständigen Entwicklung Rechnung. In überschaubarem Umfang wird bei bescheidenen Ansprüchen an die mathematisch naturwissenschaftliche Vorbildung des Lesers eine zusammenhängende Einführung in das Gesamtgebiet der Astronomie und Astrophysik gegeben, welche die Beobachtungen und die Grundgedanken ihrer theoretischen Deutung in gleicher Weise berücksichtigt. Auch mit der 5. Auflage wird *Der Neue Kosmos* den Studenten und Forschern in Bereichen der Astronomie, Physik und Geowissenschaften sowie einem weiten Kreis ernsthaft interessierter Amateure viel Neues und viel Freude bringen.

Relativistic Astrophysics and Cosmology Peter Hoyle, 2007-01-10 *Relativistic Astrophysics and Cosmology* offers a succinct and self contained treatment of general relativity and its application to compact objects, gravitational waves and cosmology. The required mathematical concepts are introduced informally following geometrical intuition as much as possible. The approach is theoretical but there is ample discussion of observational aspects and of instrumental issues where appropriate. The book includes such topical issues as the Gravity Probe B mission, interferometer detectors of gravitational waves and the physics behind the angular power spectrum.

of the cosmic microwave background CMB Written for advanced undergraduates and beginning graduate students in astrophysics it is ideally suited for a lecture course and contains 140 exercises with extensive hints The reader is assumed to be familiar with linear algebra and analysis ordinary differential equations special relativity and basic thermal physics

Physics of Planetary Rings Alexei M. Fridman, Nikolai N. Gorkavyi, 2013-04-17 *Physics of Planetary Rings* describes striking structures of the planetary rings of Saturn Uranus Jupiter and Neptune Narrow ringlets spiral waves and a chain of clumps The author has contributed essential ideas to the full understanding of planetary rings via the stability analysis of dynamical systems The combination of a high quality description the set of interesting illustrations as well as the fascinating and natural presentation will make this book of considerable interest to astronomers physicists and mathematicians as well as students There is no competing text for this book so far

Astrophysics of the Diffuse Universe Michael A. Dopita, Ralph S. Sutherland, 2013-06-29 Our purpose in writing this book is to show how physics has been applied to developing our current understanding of the phase structure physical conditions chemical makeup and evolution of the thermal interstellar medium We hope it provides an up to date overview which postgraduates advanced undergraduates and professionals in astrophysics can use as a reference of first resort before going on to read the more specialist monographs or research literature We have covered the exciting observational results but without consideration of the experimental techniques or instruments required An elementary understanding of mathematical physics and of quantum mechanics has been assumed and a knowledge of basic astrophysics would be helpful Older textbooks on interstellar physics have tended to develop the subject matter in an order which reflects the historical development of the field Here a more pedagogical approach has been adopted based on our lecture course experience We cover successively more complex physical systems found in the diffuse universe Detailed mathematical rigour is eschewed in favour of providing the reader with a basic physical insight into these systems Astrophysical problems are treated as practical applications of the physics In practice the material is generally ranked in order of decreasing entropy since the hottest and most diffuse phases tend to be physically less complex

Gravitational Lenses P. Schneider, J. Ehlers, E.E. Falco, 2013-06-29 Light observed from distant objects is found to be deflected by the gravitational field of massive objects near the line of sight an effect predicted by Einstein in his first paper setting forth the general theory of relativity and confirmed by Eddington soon afterwards If the source of the light is sufficiently distant and bright and if the intervening object is massive enough and near enough to the line of sight the gravitational field acts like a lens focusing the light and producing one or more bright images of the source This book by renowned researchers in the field begins by discussing the basic physics behind gravitational lenses the optics of curved space time It then derives the appropriate equations for predicting the properties of these lenses In addition it presents up to date observational evidence for gravitational lenses and describes the particular properties of the observed cases The authors also discuss applications of the results to problems in cosmology

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