



Martin Harwit

Astrophysical Concepts

Second Edition



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Astrophysical Concepts Astronomy And Astrophysics Library

Tobias Bleicker



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, 2013-06-29 Astronomy astrophysics and space research have witnessed an explosive development over the last few decades The new observational potential offered by space stations and the availability of powerful and highly specialized computers have revealed novel aspects of the fascinating realm of galaxies quasars stars and planets The present completely revised 5th edition of The New Cosmos provides ample evidence of these dramatic developments In a concise presentation which assumes only a modest prior knowledge of mathematics and physics the book gives a coherent introduction to the entire field of astronomy and astrophysics At the same time it takes into account the art of observation and the fundamental ideas behind their interpretation Like its predecessors this edition of The New Cosmos will provide new insight and enjoyment not only to students and researchers in the fields of astronomy physics and earth sciences but also to a wide range of interested amateurs **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 astronomer's and astrophysicist's 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 **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.

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. **The Sun** Michael Stix, 2012-12-06. A wealth of new experimental and theoretical results has been obtained in solar physics since the first edition of this textbook appeared in 1989. Thus all nine chapters have been thoroughly revised and about 100 pages and many new illustrations have been added to the text. The additions include element diffusion in the solar interior, the recent neutrino experiments, methods of image restoration, observational devices used for spectroscopy and polarimetry, and new developments in helioseismology and numerical simulation. The book takes particular advantage of the results of several recent space missions which lead to substantial progress in our understanding of the Sun, from the deep interior to the corona and solar wind.

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