

Undergraduate Lecture Notes in Physics

Jorge Ernesto Horvath

High-Energy Astrophysics

A Primer

 Springer

Astrophysics A Primer

**Carl J. Hansen, Steven D
Kawaler, Virginia Trimble**



Astrophysics A Primer:

High-Energy Astrophysics Jorge Ernesto Horvath, 2022-02-01 This textbook is designed to serve as a link between the basic disciplines of physics and the frontier topics within high energy astrophysics aiming at a level of difficulty congruent with that of other physics topics studied at undergraduate level Therefore this preparatory and introductory text serves as a gateway to a more detailed study of many of the most interesting and complex phenomena being investigated by contemporary astrophysics Among others these include the evolution of stars supernovae neutron stars black holes solar neutrinos and importantly the exciting new field of gravitational wave astronomy The book is supplemented by a collection of problems with which students can test their understanding of the material presented *Astrophysics* Wolfgang Kundt, 2001-10-09 Devised for a quantitative understanding of the physics of the universe from the solar system through the milky way to clusters of galaxies all the way to cosmology this acclaimed text offers among the most concise and most critical ones of extant works Special chapters are devoted to magnetic and radiation processes disks black hole candidacy bipolar flows cosmic rays gamma ray bursts image distortions and special sources At the same time planet earth is viewed as the arena for life with plants and animals having evolved to homo sapiens during cosmic time This text is unique in covering the basic qualitative and quantitative tools formulae as well as numbers needed to for the precise interpretation of frontline phenomena *Relativistic Astrophysics and Cosmology* Peter Hoyng, 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 astro physics 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 **Modern Astrometry** Jean Kovalevsky, 2013-03-09 On the occasion of the second edition of the book it appeared necessary to up date 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 **Stellar Physics** G.S.

Bisnovatyi-Kogan,2013-06-29 *Stellar Physics* is a rather unique book in the growing literature on star formation and evolution Not only does the author a leading expert in the field give a very thorough description of the current knowledge about stellar physics but he handles with equal care the many problems that this field of research still faces A bibliography with well over 650 entries makes this book an unparalleled source of references *Stellar Evolution and Stability* is the second volume and can be read as can the first volume as a largely independent work It traces in great detail the evolution of the protostar towards the main sequence and beyond this to the last stage of stellar evolution with the corresponding vast range from white dwarfs to the mighty supernovae explosions and blackhole formation The book concludes with special chapters on the dynamical thermal and pulsing stability of stars The Early Universe Gerhard Börner,2013-03-14

Fourteen years is a long time and especially in the field of cosmology new observational results and new theoretical ideas seem to appear at a steadily increasing rate It is a challenge to try to review the current status to give a reasonably fair account of new developments and not to increase the size of the book out of all proportion So this fourth edition is practically a new book with many chapters and sections newly written not just updated I have kept the original layout of the book with three parts concerned with I the standard model II some basic implications of quantum field theory and III questions of structure formation I have given special emphasis to the new observations of the anisotropies of the cosmic microwave background and attempted to explain their importance for cosmology as well as for structure formation models There have also been improved measurements in almost every cosmologically relevant field from the Hubble constant to element abundances and galaxy distribution statistics Quite surprisingly the standard cosmological models can still accommodate all these new observations Chaos and Complexity in Astrophysics O. Regev,2006-03-23

A primer for researchers and graduate students introduces and applies chaos techniques to specific astrophysical systems *The Solar System* Therese Encrenaz,Jean-Pierre Bibring,M.

Blanc,Maria-Antonietta Barucci,Francoise Roques,Philippe Zarka,2004-01-26 In this third corrected and revised edition students and lecturers in astronomy and planetary science as well as planet observers will find a mine of up to date information on the solar system and its interaction with the interplanetary medium its various objects comparative planetology discussion of questions for further research and future space exploration 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 **An Elementary Primer for Physics, Astrophysics, and Cosmology of Gravity-like Fields** Walter Dröscher, Jochem H. Hauser, 2016

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

Astrophysics For Dummies Cynthia Phillips, Shana Priwer, 2024-02-23 Discover the undiscovered with this jargon free introduction to astrophysics Astronomy is the study of what you see in the sky Physics is the study of how things work Astrophysics is the study of how things in the sky work from large objects to tiny particles Astrophysics For Dummies breaks it all down for you making this difficult but fascinating topic accessible to anyone Tracking the topics covered in a typical undergraduate astrophysics class this book will teach you the essential pieces to understanding our universe Get ready to launch into outer space with this ever changing branch of science Discover the latest advances in the world of astrophysics Understand how and why galaxies form and evolve Find out the origins of cosmic rays Get a standalone primer on the science or supplement your astrophysics course Students in introductory astrophysics courses and would be astronomy buffs who want to better understand the mechanics of the universe will love Astrophysics For Dummies **Eclipsing Binary Stars: Modeling and Analysis** Josef Kallrath, Eugene F. Milone, 2009-08-14 Have you ever stopped at a construction project on the way to your office and the day's astrophysics Remember the other onlookers folks just enjoying the spectacle as we all do in following developments away from our areas of active work We are excited and thrilled when the Hubble Space Telescope discovers an Einstein Cross when the marvelous pulsars enter our lives and when computer scientists put a little box on our

desk that outperforms yesterday's giant machines. We are free to make use of such achievements and we respect the imagination and discipline needed to bring them about just as onlookers respect the abilities and planning needed to create a building they may later use. After all, each of us contributes in our own areas as best as we can. In addition to the serious onlookers, there will be passersby who take only a casual look at the site. They may use the building later but have little or no interest in its construction and give no thought to the resources needed to bring it to completion. Upon arriving at work, those persons write astronomy and astrophysics books at various levels in which they must say something about close binary stars. Usually a page or two will do and the emphasis is on the MLR mass luminosity radius data obtained only from binaries.

The State of the Universe Pedro G. Ferreira, 2006. It is science's last and greatest challenge: fathoming the depths of the night sky. The objective is to crack the cosmic code to unravel the blueprint for nature's grandest conception: a machine constructed on an unimaginably vast scale, the Universe itself. Vast and also complex. Today's model of an expanding Universe, the big bang cosmology, is actually built on principles derived from a few simple mathematical equations: Gravity warped space-time; quantum mechanics; the physics of the subatomic. These crucial insights, stemming from Einstein's revolutionary theories of relativity, have led to a simple and elegant framework within which the whole of the Universe over billions of years has been described. But recent evidence has begun to make wrinkles in the neat fabric of the big bang cosmology. There is now overwhelming evidence that there is far more stuff in the Universe than we can see. What and where is this dark matter? And it now appears that the expansion of the Universe is accelerating; something out there, some exotic dark energy, is acting against gravity to push space and time apart. While offering a critical view of how all the pieces in our current model fit together, Pedro Ferreira argues that Einstein's Universe may be just another stepping stone towards a new, more profound and effective cosmology in the future.

Particle Cosmology and Astrophysics Dan Hooper, 2024-05-14. This textbook is a graduate-level introduction to cosmology and particle astrophysics, which will also serve as a useful reference for researchers working in and across these areas. The book covers cosmology as well as a variety of other topics in high-energy particle astrophysics, such as cosmic ray acceleration, neutrino astrophysics, gamma-ray astrophysics, and gravitational waves. In addition, it discusses many modern topics, including dark matter candidates and searches, the cosmic microwave background, and high-energy multi-messenger astrophysics. It should serve graduate-level courses in particle astrophysics, high-energy astrophysics, or cosmology, particularly the early universe. Problems are featured as an essential part of each chapter.

Light Pollution Handbook Kohei Narisada, Duco Schreuder, 2013-06-05. This book deals with light pollution and about the ways to reduce it. Light pollution is one of the negative side effects of artificial outdoor lighting. The term light pollution is an unhappy one, but as no better alternative seems to exist, it will be used throughout this book. The function of all outdoor lighting is to enhance the visibility or the aesthetics in the nighttime environment. The light should come where it is needed. If not, it is spilled, causing economic and environmental losses as well as disturbance and discomfort. The overall effects are

termed light pollution a major form of light pollution is the glow extending over the night sky Sky glow is discussed in many astronomical textbooks and in many popular brochures The present book is primarily aimed at those responsible for outdoor lighting installations Thus an engineering approach has been chosen The level of the book is that of college or University level The book is organized in two parts The first seven chapters cover the areas of general interest and conclude with recommendations The second part deals with the scientific and engineering elaboration of the first part A number of examples are included that refer to specific outdoor lighting installations and projects that are directly related to the reduction of light pollution Finally some information is given about the authors

Physics, Formation and Evolution of Rotating Stars Andre Maeder, 2008-12-19 Rotation is ubiquitous at each step of stellar evolution from star formation to the final stages and it affects the course of evolution the timescales and nucleosynthesis Stellar rotation is also an essential prerequisite for the occurrence of Gamma Ray Bursts In this book the author thoroughly examines the basic mechanical and thermal effects of rotation their influence on mass loss by stellar winds the effects of differential rotation and its associated instabilities the relation with magnetic fields and the evolution of the internal and surface rotation Further he discusses the numerous observational signatures of rotational effects obtained from spectroscopy and interferometric observations as well as from chemical abundance determinations helioseismology and asteroseismology etc On an introductory level this book presents in a didactical way the basic concepts of stellar structure and evolution in track 1 chapters The other more specialized chapters form an advanced course on the graduate level and will further serve as a valuable reference work for professional astrophysicists

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

Modern Fluid Dynamics for Physics and Astrophysics Oded Regev, Orkan M. Umurhan, Philip A. Yecko, 2016-05-11 This book grew out of the need to provide students with a solid introduction to modern fluid dynamics It offers a broad grounding in the underlying principles and techniques used with some emphasis on applications in astrophysics and planetary science The book comprehensively covers recent developments methods and techniques including for example new ideas on transitions to turbulence via transiently growing stable linear modes new approaches to turbulence which remains the enigma of fluid dynamics and the use of asymptotic approximation methods which can give analytical or semi analytical results and complement fully numerical treatments The authors also briefly discuss some important considerations to be taken into account when developing a numerical code for computer simulation of fluid flows Although

the text is populated throughout with examples and problems from the field of astrophysics and planetary science the text is eminently suitable as a general introduction to fluid dynamics It is assumed that the readers are mathematically equipped with a reasonable knowledge in analysis including basics of ordinary and partial differential equations and a good command of vector calculus and linear algebra Each chapter concludes with bibliographical notes in which the authors briefly discuss the chapter s essential literature and give recommendations for further deeper reading Included in each chapter are a number of problems some of them relevant to astrophysics and planetary science The book is written for advanced undergraduate and graduate students but will also prove a valuable source of reference for established researchers

The Little Book of the Big Bang Craig J. Hogan, 2013-04-10 Hogan compresses the fifteen billion year history of the Universe into a pleasurable evening In a very direct way he answers the questions everyone asks MARGARET GELLER HARVARD SMITHSONIAN CENTER FOR ASTROPHYSICS This delightful little primer brings you right up to the cutting edge of modern cosmology GEORGE SMOOT PRINCIPAL INVESTIGATOR COBE AND AUTHOR OF WRINKLES IN TIME An excellent bridge by which the layperson can enter the domain of the Cosmos with understanding ROBERT WILLIAMS DIRECTOR SPACE TELESCOPE SCIENCE INSTITUTE

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