

Astronomy and Astrophysics Library

Pierre Léna · Daniel Rouan
François Lebrun · François Mignard
Didier Pelat

Observational Astrophysics

Third Edition



Springer

Observational Astrophysics Astronomy And Astrophysics Library

Norman K. Glendenning



Observational Astrophysics Astronomy And Astrophysics Library:

Observational Astrophysics Pierre Léna, Daniel Rouan, François Lebrun, François Mignard, Didier Pelat, 2012-01-11 This is the updated widely revised restructured and expanded third edition of Léna et al's successful work *Observational Astrophysics*. It presents a synthesis on tools and methods of observational astrophysics of the early 21st century. Written specifically for astrophysicists 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. In little more than a decade there has been extraordinary progress in imaging and detection technologies in the fields of adaptive optics, optical interferometry in the sub millimetre waveband, observation of neutrinos, discovery of exoplanets to name but a few examples. The work deals with ground based and space based astronomy and their respective fields. And 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 provides an introduction to the new forms of astronomy becoming possible with gravitational waves and neutrinos. It also treats numerical aspects of observational astrophysics, signal processing, astronomical databases and virtual observatories.

Special and General Relativity Norman K. Glendenning, 2010-04-28

Special and General Relativity are concisely developed together with essential aspects of nuclear and particle physics. Problem sets are provided for many chapters making the book ideal for a course on the physics of white dwarf and neutron star interiors.

High-Redshift Galaxies Immo Appenzeller, 2009-06-17 The high redshift galaxies became a distinct research field during the final decade of the 20th century. At that time the Lyman break technique made it possible to identify significant samples of such objects and the new generation of 8 to 10 m telescopes resulted in the first good spectroscopic data. Today the high redshift galaxies have developed into one of the important topics of astrophysics accounting for about 5-10% of the publications in the major scientific journals devoted to astronomy. Because high redshift galaxies is a rapidly developing field and since new results are published constantly writing a book on this topic is challenging. On the other hand in view of the large amount of individual results now in the literature and in view of the still growing interest in this topic it appears worthwhile to summarize and evaluate the available data and to provide an introduction for those who wish to enter this field or who for various reasons might be interested in its results. The end of the first decade of the 21st century appears to be a good point in time to attempt such a summary. The current generation of ground based 8 to 10 m optical telescopes, the Hubble Space Telescope and the most important large radio telescopes have by now been in operation since about one or two decades. Although these instruments will continue to produce important scientific results for some time to come many of the initial programs exploiting their unique new possibilities have been completed.

The Interstellar Medium James Lequeux, 2005-08-29 Describing interstellar matter in our galaxy in all of its various forms this book also considers the physical and chemical processes that are occurring within this matter. The first seven chapters present the various

components making up the interstellar matter and detail the ways that we are able to study them The following seven chapters are devoted to the physical chemical and dynamical processes that control the behaviour of interstellar matter These include the instabilities and cloud collapse processes that lead to the formation of stars The last chapter summarizes the transformations that can occur between the different phases of the interstellar medium Emphasizing methods over results The Interstellar Medium is written for graduate students for young astronomers and also for any researchers who have developed an interest in the interstellar medium

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

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

Tools of Radio Astronomy

T. L. Wilson, Susanne Hüttemeister, 2012-12-06 Covering topics of radio astronomy this book contains graduate level problems with carefully presented solutions The problems are arranged following the content of the book Tools of Radio Astronomy by Rohlfs and Wilson also available in this series on a chapter by chapter basis Some of these problems have been formulated to provide an extension to the material presented in Tools of Radio Astronomy

Stellar Interiors

Carl J. Hansen, Steven D Kawaler, 2012-12-06 That trees should have been cut down to provide paper for this book was an ecological affront From a book review Anthony Blond in the Spectator 1983 The first modern text on our subject Structure and Evolution of the Stars was published over thirty years ago In it Martin Schwarzschild described numerical experiments that successfully

reproduced most of the observed properties of the majority of stars seen in the sky He also set the standard for a lucid description of the physics of stellar interiors Ten years later in 1968 John P Cox s tw volume monograph Principles of Stellar Structure appeared as did the more specialized text Principles of Stellar Evolution and Nuc1eosynthesis by Donald D Clayton and what a difference ten years had made The field had matured into the basic form that it remains today The past twenty plus years have seen this branch of astrophysics flourish and develop into a fundamental pillar of modern astrophysics that addresses an enormous variety of phenomena In view of this it might seem foolish to offer another text of finite length and expect it to cover any more than a fraction of what should be discussed to make it a thorough and self contained reference Well it doesn t Our specific aim is to introduce only the fundamentals of stellar astrophysics You will find little reference here to black holes millisecond pulsars and other sexy objects

Encyclopedia of Astrobiology Muriel Gargaud,William M. Irvine,Ricardo Amils,Philippe Claeys,Henderson James Cleaves,Maryvonne Gerin,Daniel Rouan,Tilman Spohn,Stéphane Tirard,Michel Viso,2023-07-27 Now in its third edition the Encyclopedia of Astrobiology serves as the key to a common understanding in the extremely interdisciplinary community of astrobiologists Each new or experienced researcher and graduate student in adjacent fields of astrobiology will appreciate this reference work in the quest to understand the big picture The carefully selected group of active researchers contributing to this work are aiming to give a comprehensive international perspective on and to accelerate the interdisciplinary advance of astrobiology The interdisciplinary field of astrobiology constitutes a joint arena where provocative discoveries are coalescing concerning e g the prevalence of exoplanets the diversity and hardiness of life and its chances for emergence Biologists astrophysicists bio chemists geoscientists and space scientists share this exciting mission of revealing the origin and commonality of life in the Universe With its overview articles and its definitions the Encyclopedia of Astrobiology not only provides a common language and understanding for the members of the different disciplines but also serves for educating a new generation of young astrobiologists who are no longer separated by the jargon of individual scientific disciplines This new edition offers 170 new entries More than half of the existing entries were updated expanded or supplemented with figures supporting the understanding of the text Especially in the fields of astrochemistry and terrestrial extremophiles but also in exoplanets and space sciences in general there is a huge body of new results that have been taken into account in this new edition Because the entries in the Encyclopedia are in alphabetical order without regard for scientific field this edition includes a section Astrobiology by Discipline which lists the entries by scientific field and subfield This should be particularly helpful to those enquiring about astrobiology as it illustrates the broad and detailed nature of the field

Solar Observations F. Sánchez,M. Collados,M. Vazquez,1992 First Canary Islands Winter School Workshop in which four internationally respected scientists write on solar physics

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

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

Magneto-Fluid Dynamics Paul Lorrain, Francois Lorrain, Stephane Houle, 2007-10-31 Magnetohydrodynamics MHD concerns the interaction between magnetic fields and conducting fluids We are concerned here with macroscopic interactions and when the conducting fluid is a plasma time scales are very much longer than the plasma period Plasma periods vary widely but are short say 10 second We prefer the term Magneto Fluid Dynamics MFD because the discipline concerns mostly plasmas various liquid conductors and the liquid part of the Earth's core It seems that the only applications of MFD to water are the induction of electric currents in the oceans by the Earth's magnetic field and ship propulsion But even MFD is not quite appropriate because that term also includes solid conductors that move in magnetic fields This book is meant for graduate and upper division undergraduate students in Physics

Geophysics and Astrophysics as well as for practicing scientists in these fields This book is no more than a brief introduction to MFD because this vast subject is closely related to many others namely Astrophysics Electrodynamics Fluid Dynamics Geophysics Oceanography Plasma Physics Thermonuclear Fusion etc We sketch the fundamentals and provide many Examples as well as Case Studies related to natural phenomena MFD sorely needs a rethink it must of course be totally compatible with Physics On the contrary it is the custom to discuss the shapes of imaginary magnetic field lines without ever

referring to the required electric currents 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

Modern Astrometry Jean Kovalevsky, 2013-03-09 Astrometry is the domain of astronomy devoted to the determination of positions and their time variations and by extension the apparent dimensions and shapes of celestial bodies Although several books describe the theoretical foundations of positional astronomy they touch only slightly on the description of instruments and the procedures for obtaining actual geometrical or kinematic quantities which are among the basic observational data in the study of the Universe and of its components The goal of the present book is in contrast to provide an up to date description of astrometric techniques particularly the most recent and powerful ones whether the instruments are on the ground or in space Until the end of the 19th century before the development of physical astronomy all astronomical observations were directed towards obtaining positions of celestial bodies Since then astrophysics has become the most important domain of astronomy With the extension of observations to almost all wavelengths from radio waves to gamma rays with the use of very sensitive new receivers and the development of fast computers remarkable progress has been made in the description and the understanding of the Universe **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

Principles of Stellar Interferometry Andreas Glindemann, 2011-01-04 Over the last decade stellar interferometry has developed from a specialist tool to a mainstream observing technique attracting scientists whose research benefits from

milliarcsecond angular resolution Stellar interferometry has become part of the astronomer's toolbox complementing single telescope observations by providing unique capabilities that will advance astronomical research This carefully written book is intended to provide a solid understanding of the principles of stellar interferometry to students starting an astronomical research project in this field or to develop instruments and to astronomers using interferometry but who are not interferometrists per se Illustrated by excellent drawings and calculated graphs the imaging process in stellar interferometers is explained starting from first principles on light propagation and diffraction wave propagation through turbulence is described in detail using Kolmogorov statistics the impact of turbulence on the imaging process is discussed both for single telescopes and for interferometers instrumental techniques like beam combination and array layout are described and the requirements for delay lines are derived visibility measurements modulus and phase through turbulence are analyzed and limitations are quantified correction methods fringe tracking and adaptive optics are presented discussing closed loop operation with a dual feed system The book closes with examples of contemporary stellar interferometers and useful appendices on the Fourier transform and atmospheric transmission bands

The Universe in X-Rays Joachim E. Trümper, Günther Hasinger, 2008-02-05 With contributions from leading scientists in the field and edited by two of the most prominent astronomers of our time this is a totally authoritative volume on X ray astronomy that will be essential reading for everyone interested from students to astrophysicists and physicists All the aspects of this exciting area of study are covered from astronomical instrumentation to extragalactic X ray astronomy

Philosophy of Astrophysics Nora Mills Boyd, Siska De Baerdemaeker, Kevin Heng, Vera Matarese, 2023-06-28 This is an open access book This book the first edited collection of its kind explores the recent emergence of philosophical research in astrophysics It assembles a variety of original essays from scholars who are currently shaping this field and it combines insightful overviews of the current state of play with novel significant contributions It therefore provides an ideal source for understanding the current debates in philosophy of astrophysics and it offers new ideas for future cutting edge research The selection of essays offered in this book addresses methodological and metaphysical questions that target a wide range of topics including dark matter black holes astrophysical observations and modelling The book serves as the first standard resource in philosophy of astrophysics for all scholars who work in the field and want to expand or deepen their knowledge but it also provides an accessible guide for all those philosophers and scientists who are interested in getting a first basic understanding of the main issues in philosophy of astrophysics

Methods of Celestial Mechanics Gerhard Beutler, 2005-11-20 G Beutler's Methods of Celestial Mechanics is a coherent textbook for students as well as an excellent reference for practitioners The first volume gives a thorough treatment of celestial mechanics and presents all the necessary mathematical details that a professional would need The reader will appreciate the well written chapters on numerical solution techniques for ordinary differential equations as well as that on orbit determination In the second volume applications to the rotation of earth and moon to artificial earth satellites

and to the planetary system are presented The author addresses all aspects that are of importance in high tech applications such as the detailed gravitational fields of all planets and the earth the oblateness of the earth the radiation pressure and the atmospheric drag The concluding part of this monumental treatise explains and details state of the art professional and thoroughly tested software for celestial mechanics

Decoding **Observational Astrophysics Astronomy And Astrophysics Library**: Revealing the Captivating Potential of Verbal Expression

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