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# **General Relativity, Astrophysics, and Cosmology**



Springer

# General Relativity Astrophysics And Cosmology Astronomy And Astrophysics Library

**Rudolf Kippenhahn, Alfred Weigert**



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**Relativistic Astrophysics and Cosmology** Peter Hoyng, 2006-07-07 This textbook offers a succinct and self contained introduction into general relativity and its main areas of application compact objects gravitational waves and cosmology Pref

*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 Concepts** Martin Harwit, 2000-04-20 This classic text aimed at senior undergraduates and beginning graduate students in physics and astronomy presents a wide range of concepts in sufficient depth to give the reader a quantitative understanding of the subject Emphasising physical concepts it provides the student with a series of astrophysical sketches concluding with a synthesis of all the subjects discussed in the book sketching the history of the universe from its beginning to the formation of the Sun and the planets

**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

**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

*Galaxy Formation* Malcolm Longair, 2007-12-12 Delineating the huge strides taken in cosmology in the past ten years this much anticipated second edition of Malcolm Longair's highly appreciated textbook has been extensively and thoroughly updated It tells the story of modern astrophysical cosmology from the perspective of one of its most important and fundamental problems how

did the galaxies come about Longair uses this approach to introduce the whole of what may be called classical cosmology What s more he describes how the study of the origin of galaxies and larger scale structures in the Universe has provided us with direct information about the physics of the very early Universe      **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      Galaxies and Cosmology F. Combes,1995 Unique in its breadth of coverage and level of presentation this textbook examines the nature of galaxies extragalactic objects the large scale structure of the Universe and cosmology more closely than general textbooks on astronomy while still remaining comprehensible for advanced undergraduate students One or several chapters are devoted to the following the formation classification and morphology of galaxies the interactions between galaxies the galactic interstellar medium galactic kinematics elliptical spiral and barred spiral galaxies extragalactic radio sources quasars their line spectra and other active galactic nuclei the Universe as a whole      **Theory of Orbits** Dino Boccaletti,Giuseppe Pucacco,2013-03-09 Half a century ago S Chandrasekhar wrote these words in the preface to his 1 celebrated and successful book In this monograph an attempt has been made to present the theory of stellar dy namics as a branch of classical dynamics a discipline in the same general category as celestial mechanics Indeed several of the problems of modern stellar dy namical theory are so severely classical that it is difficult to believe that they are not already discussed for example in Jacobi s Vorlesungen Since then stellar dynamics has developed in several directions and at var ious levels basically three viewpoints remaining from which to look at the problems encountered in the interpretation of the phenomenology Roughly speaking we can say that a stellar system cluster galaxy etc can be con sidered from the point of view of celestial mechanics the N body problem with N 1 fluid mechanics the system is represented by a material con tinuum or statistical mechanics one defines a distribution function for the positions and the states of motion of the components of the system      High Energy Physics Index ,1993      *General Relativity* Norbert Straumann,2012-10-08 This book provides a completely revised and expanded version of the previous classic edition General Relativity and Relativistic Astrophysics In Part I the foundations of general relativity are thoroughly developed while Part II is devoted to tests of general relativity and many of its applications Binary pulsars our best laboratories for general relativity are studied in considerable detail An

introduction to gravitational lensing theory is included as well so as to make the current literature on the subject accessible to readers Considerable attention is devoted to the study of compact objects especially to black holes This includes a detailed derivation of the Kerr solution Israel s proof of his uniqueness theorem and a derivation of the basic laws of black hole physics Part II ends with Witten s proof of the positive energy theorem which is presented in detail together with the required tools on spin structures and spinor analysis In Part III all of the differential geometric tools required are developed in detail A great deal of effort went into refining and improving the text for the new edition New material has been added including a chapter on cosmology The book addresses undergraduate and graduate students in physics astrophysics and mathematics It utilizes a very well structured approach which should help it continue to be a standard work for a modern treatment of gravitational physics The clear presentation of differential geometry also makes it useful for work on string theory and other fields of physics classical as well as quantum

*General Relativity, Cosmology and Astrophysics* Jiří Bičák, Tomáš Ledvinka, 2014-06-12 The articles included in this Volume represent a broad and highly qualified view on the present state of general relativity quantum gravity and their cosmological and astrophysical implications As such it may serve as a valuable source of knowledge and inspiration for experts in these fields as well as an advanced source of information for young researchers The occasion to gather together so many leading experts in the field was to celebrate the centenary of Einstein s stay in Prague in 1911 1912 It was in fact during his stay in Prague that Einstein started in earnest to develop his ideas about general relativity that fully developed in his paper in 1915 Approaching soon the centenary of his famous paper this volume offers a precious overview of the path done by the scientific community in this intriguing and vibrant field in the last century defining the challenges of the next 100 years The content is divided into four broad parts i Gravity and Prague ii Classical General Relativity iii Cosmology and Quantum Gravity and iv Numerical Relativity and Relativistic Astrophysics

*Stellar Structure and Evolution* Rudolf Kippenhahn, Alfred Weigert, 1990 A handsomely produced complete textbook on the physics at the stellar interior and the underlying fundamental processes and parameters The models developed here to explain the stability dynamics and evolution of stars are presented with close attention to their stages Annotation copyrighted by Book News Inc Portland OR

**Subject Guide to Books in Print**, 2001 **General Relativity** Norbert Straumann, 2013-11-11 The foundations are thoroughly developed together with the required mathematical background from differential geometry developed in Part III The author also discusses the tests of general relativity in detail including binary pulsars with much space is devoted to the study of compact objects especially to neutron stars and to the basic laws of black hole physics This well structured text and reference enables readers to easily navigate through the various sections as best matches their backgrounds and perspectives whether mathematical physical or astronomical Very applications oriented the text includes very recent results such as the supermassive black hole in our galaxy and first double pulsar system

**Communication**, 1993 **Relativity, Astrophysics and Cosmology** W. Israel, 2012-12-06 The 1972 Banff lectures

attempted a systematic exposition of the ideas underlying recent developments in general relativity and its astronomical applications at a level accessible and useful to graduate students having some previous acquaintance with the subject To our regret it was not possible to include any printed record of Peebles beautiful lectures on observational cosmology or of the many stimulating seminars on special topics contributed by the participants What remains is nevertheless a reasonably self contained and compact introduction to Einstein's theory in its modern incarnation and we hope it will be found useful by the many physicists astronomers and mathematicians who wish to update and deepen their understanding of the theory On behalf of the organizing committee I should like to express appreciation to a number of people whose help was crucial to the success of the enterprise to Jan van Kranendonk who initiated the idea of a Banff summer school on general relativity to him and to David Rowe and Don Betts for inspiration and moral support to our indefatigable secretaries Olwyn Buckland and Leslie Hughes and to Garry Nash Richard Sigal Tim Spanos and Gordon Wilson who helped in a variety of ways to keep the wheels running How much we owe to the splendid cooperative effort of the lecturers will be clear to any reader of the following pages

Scientific and Technical Books and Serials in Print ,1984      **Fundamentals of Cosmology** James Rich,2009-12-03 This is the second edition of a book on the phenomenological foundations of modern cosmology The first edition was surprisingly well timed In the preceding 3 years advances in astronomy had laid the foundations of the dark energy dark matter cosmological model In 1998 observations of type Ia supernova by the Supernova Cosmology Project and High Z team suggested that the expansion of the universe is accelerating In 2000 Boomerang and Maxima observed clearly the first acoustic peak in the anisotropy spectrum of the cosmic microwave background The position of the peak strongly suggested that the density of the universe was near critical These two observations reconciled popular inflationary models with the heretofore embarrassing insistence by astronomers that the clumping of galaxies required that the mass density of the universe be only about 25% of the critical density The supernova data told us that the rest was dark energy in the form of an effective vacuum energy or cosmological constant The so called LambdaCDM model became the standard model Eight years later the observational data has improved tremendously as a comparison of the figures in the two editions will demonstrate Surprisingly all this incredible data has failed to find any clear failure of the CDM model Among the observational advances the most obvious comes from the WMAP satellite who along the ground based experiments like ACBAR yielded the exquisite series of peaks in the CMB temperature anisotropy spectrum shown in Fig 7.11

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