



# RELATIVITY AND COSMOLOGY

From First Principles to Interpretations

Balša Terzić



# Relativity And Cosmology

**Howard Percy Robertson, Thomas W.  
Noonan**



## Relativity And Cosmology:

*General Relativity and Cosmology* SUSHIL KUMAR SRIVASTAVA, 2008-06-10 The general theory of relativity and its applications to cosmology requires very deep understanding of mathematics and physics Keeping this in mind this self contained textbook is written which addresses to general relativity and cosmology In this book the attempts have been made to explain mathematicians notions in the language of a physicist Primarily intended for the postgraduate students of mathematics and physics it gives equal importance to mathematical and physical aspects and thus sharpens understanding of the theory The text covers many modern concepts and current developments in gravity and cosmology including Brans Dicke theory higher derivative gravity Kaluza Klein theory with extension to higher dimensions Besides PG students this book would also be useful for research scholars KEY FEATURES Highlights special features of general relativity and cosmology Discusses structure formation in the universe inflationary models and dark energy models with special focus on basic concepts Provides problems at the end of each chapter to stimulate thinking Reveals interconnections between required mathematical concepts Explains how to apply mathematical concepts to physical problems Discusses lagrangian formulation of the field theory and action principle as it provides a powerful tool to derive field equations and energy momentum tensor components

General Relativity and Cosmology Ronald J. Adler, 2021-01-22 Gravitational physics has now become a mainstream topic in physics and physics teaching In particular cosmology and gravitational wave physics are at the focus of a great deal of current research Thus it is important to introduce students to General Relativity as soon as reasonable This textbook offers a brief but comprehensive treatment accessible to advanced undergraduate students graduate students and any physicist or mathematician interested in understanding the material in a short time The author an experienced teacher of the subject has included numerous examples and exercises to help students consolidate the ideas they have learned Solutions to the exercises are provided as supplementary material in the online chapters

**General Relativity, Astrophysics, and Cosmology** A.K. Raychaudhuri, S. Banerji, A. Banerjee, 2003-11-14 For about half a century the general theory of relativity attracted little attention from physicists However the discovery of compact objects such as quasars and pulsars as well as candidates for black holes on the one hand and the microwave background radiation on the other hand completely changed the picture In addition developments in elementary particle physics such as predictions of the behavior of matter at the ultrahigh energies that might have prevailed in the early stages of the big bang have greatly enhanced the interest in general relativity These developments created a large body of readers interested in general relativity and its applications in astrophysics and cosmology Having neither the time nor the inclination to delve deeply into the technical literature such readers need a general introduction to the subject before exploring applications It is for these readers that the present volume is intended Keeping in mind the broad range of interests and wanting to avoid mathematical complications as much as possible we have ventured to combine all three topics relativity astrophysics and cosmology in a single volume Naturally

we had to make a careful selection of topics to be discussed in order to keep the book to a manageable length

**Tensors, Relativity, and Cosmology** Nils Dalarsson, Mirjana Dalarsson, 2005-04-29 This book combines relativity astrophysics and cosmology in a single volume providing an introduction to each subject that enables students to understand more detailed treatises as well as the current literature The section on general relativity gives the case for a curved space time presents the mathematical background tensor calculus Riemannian geometry discusses the Einstein equation and its solutions including black holes Penrose processes and similar topics and considers the energy momentum tensor for various solutions The next section on relativistic astrophysics discusses stellar contraction and collapse neutron stars and their equations of state black holes and accretion onto collapsed objects Lastly the section on cosmology discusses various cosmological models observational tests and scenarios for the early universe Clearly combines relativity astrophysics and cosmology in a single volume so students can understand more detailed treatises and current literature Extensive introductions to each section are followed by relevant examples and numerous exercises Provides an easy to understand approach to this advanced field of mathematics and modern physics by providing highly detailed derivations of all equations and results

**Relativity and Cosmology** Howard Percy Robertson, Thomas W. Noonan, 1968 Euclidean space Classical electromagnetism The Lorentz transformation Electromagnetism in special relativity Matter Special relativistic gravitation theories Differential geometry Riemannian geometry General relativity Selected topics in general relativity Inertial frames Equations of motion Automorphisms Foundations of cosmology Observable quantities Special cosmological models General relativistic cosmology Cosmological observations

**Space-Time, Relativity, and Cosmology** Jose Wudka, 2006-07-20 Space Time Relativity and Cosmology provides a historical introduction to modern relativistic cosmology and traces its historical roots and evolution from antiquity to Einstein The topics are presented in a non mathematical manner with the emphasis on the ideas that underlie each theory rather than their detailed quantitative consequences A significant part of the book focuses on the Special and General theories of relativity The tests and experimental evidence supporting the theories are explained together with their predictions and their confirmation Other topics include a discussion of modern relativistic cosmology the consequences of Hubble's observations leading to the Big Bang hypothesis and an overview of the most exciting research topics in relativistic cosmology This textbook is intended for introductory undergraduate courses on the foundations of modern physics It is also accessible to advanced high school students as well as non science majors who are concerned with science issues

**A Short Course in General Relativity and Cosmology** Reinhard Hentschke, Christian Hölbling, 2020-06-23 Unlike most traditional introductory textbooks on relativity and cosmology that answer questions like Does accelerated expansion pull our bodies apart Does the presence of dark matter affect the classical tests of general relativity in a qualitative manner the present text is intended as a foundation enabling students to read and understand the textbooks and many of the scientific papers on the subject And above all the readers are taught and encouraged to do their own calculations

check the numbers and answer the above and other questions regarding the most exciting discoveries and theoretical developments in general relativistic cosmology which have occurred since the early 1980s In comparison to these intellectual benefits the text is short In fact its brevity without neglect of scope or mathematical accessibility of key points is rather unique The authors connect the necessary mathematical concepts and their reward i e the understanding of an important piece of modern physics along the shortest path The unavoidable mathematical concepts and tools are presented in as straightforward manner as possible Even though the mathematics is not very difficult it certainly is beneficial to know some statistical thermodynamics as well as some quantum mechanics Thus the text is suitable for the upper undergraduate curriculum *An Introduction to General Relativity and Cosmology* Jerzy Plebanski, Andrzej Krasinski, 2024-06-06 Experts

introduce the tools of GR and relativistic cosmology guiding advanced students through complete derivations of the results

A College Course on Relativity and Cosmology Ta-Pei Cheng, 2015 Einstein's general theory of relativity is introduced in this advanced undergraduate textbook Topics covered include geometric formulation of special relativity the principle of equivalence Einstein's field equation and its spherical symmetric solution as well as cosmology **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 **Lectures on General Relativity and Cosmology** Jayant Vishnu Narlikar, 1979

An Introduction to Tensor Calculus, Relativity, and Cosmology Derek F. Lawden, 1982 **Relativistic Cosmology** J. Heidmann, 2012-12-06 Since the first French edition of the book emphasized rather the solid facts of Cosmology than the detailed discussions of controversial results relatively few revisions were necessary for the English edition They were made early in 1979 and affected about 5% of the text The main revisions referred to the distance scale the distribution of galaxies the X ray observations of clusters the cosmic time evolution of quasars and radiogalaxies and the 3 K radiation A new short bibliography presents the recent articles and the latest proceedings of Symposia from these the reader can easily trace a more complete list of references I am happy to thank Professor Beiglbock for suggestions he made to improve Part II on Spaces of Constant Curvature and Drs S and J Mitton for translating the manuscript into English I also thank with pleasure

Marie Ange Sevin for correcting the final version J Heidmann March 1980 Meudon France Preface The aim of this book is to present the fundamentals of cosmology Its subject is the study of the universe on a grand scale on a grand distance scale since from the start we shall be escaping the confines of our own Galaxy to explore space as far as the limits of the observable universe some ten thousand million light years away and on a grand time scale as we shall look back into the past to the very first moments of the initial expansion about twelve thousand million years ago General Relativity and Cosmology Salvatore Capozziello, Mariafelicia De Laurentis, 2016-08-31 This book offers an excellent introduction to General Relativity and Cosmology It is designed to serve as a self contained text for graduate and advanced undergraduate students and also to provide a basic text for PhD courses Each of the four parts of the book two basic and two advanced can be used as an independent module In the first part the main concepts of General Relativity are presented while the second offers an introduction to the astrophysical applications The third part is advanced and discusses the extensions of General Relativity the contents represent ideal material for a short course at PhD level The final part of the book provides an introduction to Relativistic Cosmology and its applications Throughout the text all mathematical calculations are explained clearly in step by step detail Whenever appropriate the reader is guided to further specialized sources of information Einstein's General Theory of Relativity Øyvind Grøn, Sigbjørn Hervik, 2007-08-24 This book introduces the general theory of relativity and includes applications to cosmology The book provides a thorough introduction to tensor calculus and curved manifolds After the necessary mathematical tools are introduced the authors offer a thorough presentation of the theory of relativity Also included are some advanced topics not previously covered by textbooks including Kaluza Klein theory Israel's formalism and branes Anisotropic cosmological models are also included The book contains a large number of new exercises and examples each with separate headings The reader will benefit from an updated introduction to general relativity including the most recent developments in cosmology **An Introduction to General Relativity and Cosmology** Jerzy Plebanski, Andrzej Krasinski, 2006-08-14 General relativity is a cornerstone of modern physics and is of major importance in its applications to cosmology Plebanski and Krasinski are experts in the field and in this book they provide a thorough introduction to general relativity guiding the reader through complete derivations of the most important results Providing coverage from a unique viewpoint geometrical physical and astrophysical properties of inhomogeneous cosmological models are all systematically and clearly presented allowing the reader to follow and verify all derivations For advanced undergraduates and graduates in physics and astronomy this textbook will enable students to develop expertise in the mathematical techniques necessary to study general relativity Tensors, Relativity, and Cosmology Mirjana Dalarsson, Nils Dalarsson, 2005-03-21 This book combines relativity astrophysics and cosmology in a single volume providing an introduction to each subject that enables students to understand more detailed treatises as well as the current literature The section on general relativity gives the case for a curved space time presents the mathematical background tensor calculus Riemannian geometry discusses the

Einstein equation and its solutions including black holes Penrose processes and similar topics and considers the energy momentum tensor for various solutions The next section on relativistic astrophysics discusses stellar contraction and collapse neutron stars and their equations of state black holes and accretion onto collapsed objects Lastly the section on cosmology discusses various cosmological models observational tests and scenarios for the early universe Clearly combines relativity astrophysics and cosmology in a single volume so students can understand more detailed treatises and current literature Extensive introductions to each section are followed by relevant examples and numerous exercises Provides an easy to understand approach to this advanced field of mathematics and modern physics by providing highly detailed derivations of all equations and results

*Relativity* Wolfgang Rindler, 2006-04-07 Relativistic cosmology has in recent years become one of the most active and exciting branches of research often considered to be today where particle physics was forty years ago with major discoveries just waiting to happen Consequently the part most affected by this second edition is the last part on cosmology But there are additions improvements and new exercises throughout \_ The book s basic purpose is unchanged It is to make relativity come alive conceptually and to display the grand theoretical edifice that it is with consequences in many branches of physics The emphasis is on the foundations on the logical subtleties and on presenting the necessary mathematics including differential geometry and tensors but always as late and in as palatable a form as possible Aided by over 300 exercises the book seeks to promote an in depth understanding and the confidence to tackle any basic problem in relativity

An Introduction to General Relativity and Cosmology Jerzy Plebański, 2006 General relativity is a cornerstone of modern physics and is of major importance in its applications to cosmology Plebanski and Krasinski are experts in the field and in this 2006 book they provide a thorough introduction to general relativity guiding the reader through complete derivations of the most important results Providing coverage from a unique viewpoint geometrical physical and astrophysical properties of inhomogeneous cosmological models are all systematically and clearly presented allowing the reader to follow and verify all derivations For advanced undergraduates and graduates in physics and astronomy this textbook will enable students to develop expertise in the mathematical techniques necessary to study general relativity

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