



General Relativity

An Introduction for Physicists

M. P. Hobson, G. Efstathiou and A. N. Lasenby

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Rafael Ferraro



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General Relativity, 1995 Introduction To General Relativity John Dirk Walecka, 2007-04-16 A working knowledge of Einstein's theory of general relativity is an essential tool for every physicist today. This self-contained book is an introductory text on the subject, aimed at first-year graduate students or advanced undergraduates in physics that assumes only a basic understanding of classical Lagrangian mechanics. The mechanics problem of a point mass constrained to move without friction on a two-dimensional surface of arbitrary shape serves as a paradigm for the development of the mathematics and physics of general relativity. After reviewing special relativity, the basic principles of general relativity are presented, and the most important applications are discussed. The final special topics section guides the reader through a few important areas of current research. This book will allow the reader to approach the more advanced texts and monographs, as well as the continual influx of fascinating new experimental results, with a deeper understanding and sense of appreciation. **Gravity**

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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 [An Introduction to General Relativity](#) L. P. Hughston, K. P. Tod, 1990 This textbook provides an introduction to general relativity for mathematics undergraduates or graduate physicists After a review of Cartesian tensor notation and special relativity the concepts of Riemannian differential geometry are introduced More emphasis is placed on an intuitive grasp of the subject and a calculational facility than on a rigorous mathematical exposition General relativity is then presented as a relativistic theory of gravity reducing in the appropriate limits to Newtonian gravity

or special relativity The Schwarzschild solution is derived and the gravitational red shift time dilation and classic tests of general relativity are discussed There is a brief account of gravitational collapse and black holes based on the extended Schwarzschild solution Other vacuum solutions are described motivated by their counterparts in linearised general relativity The book ends with chapters on cosmological solutions to the field equations There are exercises attached to each chapter some of which extend the development given in the text

Elements of General Relativity Piotr T. Chruściel, 2020-03-19

This book provides an introduction to the mathematics and physics of general relativity its basic physical concepts its observational implications and the new insights obtained into the nature of space time and the structure of the universe It introduces some of the most striking aspects of Einstein's theory of gravitation black holes gravitational waves stellar models and cosmology It contains a self contained introduction to tensor calculus and Riemannian geometry using in parallel the language of modern differential geometry and the coordinate notation more familiar to physicists The author has strived to achieve mathematical rigour with all notions given careful mathematical meaning while trying to maintain the formalism to the minimum fit for purpose Familiarity with special relativity is assumed The overall aim is to convey some of the main physical and geometrical properties of Einstein's theory of gravitation providing a solid entry point to further studies of the mathematics and physics of Einstein equations

Introduction To General Relativity And Cosmology Christian G

Boehmer, 2016-10-06 Introduction to General Relativity and Cosmology gives undergraduate students an overview of the fundamental ideas behind the geometric theory of gravitation and spacetime Through pointers on how to modify and generalise Einstein's theory to enhance understanding it provides a link between standard textbook content and current research in the field Chapters present complicated material practically and concisely initially dealing with the mathematical foundations of the theory of relativity in particular differential geometry This is followed by a discussion of the Einstein field equations and their various properties Also given is analysis of the important Schwarzschild solutions followed by application of general relativity to cosmology Questions with fully worked answers are provided at the end of each chapter to aid comprehension and guide learning This pared down textbook is specifically designed for new students looking for a workable simple presentation of some of the key theories in modern physics and mathematics

Einstein's Space-Time Rafael

Ferraro, 2007-06-07 This excellent textbook offers a unique take on relativity theory setting it in its historical context Ideal for those interested in relativity and the history of physics the book contains a complete account of special relativity that begins with the historical analysis of the reasons that led to a change in our view of space and time Its aim is to foster a deep understanding of relativistic spacetime and its consequences for Dynamics

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