



# Gravitation And Spacetime

**Wenbin Ji**



## **Gravitation And Spacetime:**

**Gravitation and Spacetime** Hans C. Ohanian, Remo Ruffini, 2013-04-08 This text provides a quantitative introduction to general relativity for advanced undergraduate and graduate students      Space Time and Gravitation Arthur Stanley Eddington, 2013-05-31 This text provides an account of various experiments that demonstrate a simplified reality where space and time are relegated to their proper source the observer The principles of these experiments and theories originate from the ideas of Einstein and this text aims to present this new outlook without the need for extensive knowledge of mathematics physics or philosophy This text will be of considerable use to those with a keen interest in physics and would make for a great addition to any bookshelf The chapters of this book include The Fitzgerald Contraction Relativity The World of Four Dimensions Fields of Force Kinds of Space The New Law of Gravitation and the Old Law Weighing Light Other Tests of The Theory Momentum and Energy etcetera We are publishing this antiquarian book now in an affordable modern edition complete with a new biography of the author      **A Journey into Gravity and Spacetime** John Archibald Wheeler, 1999-06-07 Gravity is not a force acting at a distance It is mass gripping spacetime telling it how to curve and spacetime gripping mass telling it how to move According to preeminent physicist John Archibald Wheeler gravity makes the closest connection between the world we see around us and the inner most workings of the universe In this imaginative volume Wheeler explores gravity and spacetime by applying Einstein's battle tested theory to both familiar and exotic phenomena everything from flying tennis balls to hurling gravity waves from crashing stars the motion of the planets and the collapse of a star into a black hole It's a provocative revealing fully engaging scientific journey led by a frontline participant in the most important work in physics in the last 50 years      *Special and General Relativity* Rainer Dick, 2019-02-07 This book provides a concise introduction to both the special theory of relativity and the general theory of relativity The format is chosen to provide the basis for a single semester course which can take the students all the way from the foundations of special relativity to the core results of general relativity the Einstein equation and the equations of motion for particles and light in curved spacetime To facilitate access to the topics of special and general relativity for science and engineering students without prior training in relativity or geometry the relevant geometric notions are also introduced and developed from the ground up Students in physics mathematics or engineering with an interest to learn Einstein's theories of relativity should be able to use this book already in the second semester of their third year The book could also be used as the basis of a graduate level introduction to relativity for students who did not learn relativity as part of their undergraduate training      **Inertia and Gravitation** Herbert Pfister, Markus King, 2015-02-24 This book focuses on the phenomena of inertia and gravitation one objective being to shed some new light on the basic laws of gravitational interaction and the fundamental nature and structures of spacetime Chapter 1 is devoted to an extensive partly new analysis of the law of inertia The underlying mathematical and geometrical structure of Newtonian spacetime is presented from a four dimensional point of

view and some historical difficulties and controversies in particular the concepts of free particles and straight lines are critically analyzed while connections to projective geometry are also explored The relativistic extensions of the law of gravitation and its intriguing consequences are studied in Chapter 2 This is achieved following the works of Weyl Ehlers Pirani and Schild by adopting a point of view of the combined conformal and projective structure of spacetime Specifically Mach's fundamental critique of Newton's concepts of absolute space and absolute time was a decisive motivation for Einstein's development of general relativity and his equivalence principle provided a new perspective on inertia In Chapter 3 the very special mathematical structure of Einstein's field equations is analyzed and some of their remarkable physical predictions are presented By analyzing different types of dragging phenomena Chapter 4 reviews to what extent the equivalence principle is realized in general relativity a question intimately connected to the new force of gravitomagnetism which was theoretically predicted by Einstein and Thirring but which was only recently experimentally confirmed and is thus of current interest

**Spacetime and Geometry** Sean M. Carroll, 2019-08-08 An accessible introductory textbook on general relativity covering the theory's foundations mathematical formalism and major applications *Gravitation* Charles W. Misner, Kip S. Thorne, John Archibald Wheeler, 2017-10-03 First published in 1973 Gravitation is a landmark graduate level textbook that presents Einstein's general theory of relativity and offers a rigorous full year course on the physics of gravitation Upon publication Science called it a pedagogic masterpiece and it has since become a classic considered essential reading for every serious student and researcher in the field of relativity This authoritative text has shaped the research of generations of physicists and astronomers and the book continues to influence the way experts think about the subject With an emphasis on geometric interpretation this masterful and comprehensive book introduces the theory of relativity describes physical applications from stars to black holes and gravitational waves and portrays the field's frontiers The book also offers a unique alternating two track pathway through the subject Material focusing on basic physical ideas is designated as Track 1 and formulates an appropriate one semester graduate level course The remaining Track 2 material provides a wealth of advanced topics instructors can draw on for a two semester course with Track 1 sections serving as prerequisites This must have reference for students and scholars of relativity includes a new preface by David Kaiser reflecting on the history of the book's publication and reception and a new introduction by Charles Misner and Kip Thorne discussing exciting developments in the field since the book's original publication The book teaches students to Grasp the laws of physics in flat and curved spacetime Predict orders of magnitude Calculate using the principal tools of modern geometry Understand Einstein's geometric framework for physics Explore applications including neutron stars Schwarzschild and Kerr black holes gravitational collapse gravitational waves cosmology and so much more Relativity, Gravitation and Cosmology Ta-Pei Cheng, 2009-11-07 Einstein's general theory of relativity is introduced in this advanced undergraduate and beginning graduate level textbook Topics include special relativity in the formalism of Minkowski's four dimensional space time the

principle of equivalence Riemannian geometry and tensor analysis Einstein field equation as well as many modern cosmological subjects from primordial inflation and cosmic microwave anisotropy to the dark energy that propels an accelerating universe The author presents the subject with an emphasis on physical examples and simple applications without the full tensor apparatus The reader first learns how to describe curved spacetime At this mathematically more accessible level the reader can already study the many interesting phenomena such as gravitational lensing precession of Mercury's perihelion black holes and cosmology The full tensor formulation is presented later when the Einstein equation is solved for a few symmetric cases Many modern topics in cosmology are discussed in this book from inflation cosmic microwave anisotropy to the dark energy that propels an accelerating universe Mathematical accessibility together with the various pedagogical devices e.g. worked out solutions of chapter end problems make it practical for interested readers to use the book to study general relativity and cosmology on their own

Gravitation and Inertia Ignazio Ciufolini, John Archibald Wheeler, 2018-06-26 Einstein's standard and battle tested geometric theory of gravity spacetime tells mass how to move and mass tells spacetime how to curve is expounded in this book by Ignazio Ciufolini and John Wheeler They give special attention to the theory's observational checks and to two of its consequences the predicted existence of gravitomagnetism and the origin of inertia local inertial frames in Einstein's general relativity inertia here arises from mass there The authors explain the modern understanding of the link between gravitation and inertia in Einstein's theory from the origin of inertia in some cosmological models of the universe to the interpretation of the initial value formulation of Einstein's standard geometrodynamics and from the devices and the methods used to determine the local inertial frames of reference to the experiments used to detect and measure the dragging of inertial frames of reference In this book Ciufolini and Wheeler emphasize present past and proposed tests of gravitational interaction metric theories and general relativity They describe the numerous confirmations of the foundations of geometrodynamics and some proposed experiments including space missions to test some of its fundamental predictions in particular gravitomagnetic field or dragging of inertial frames and gravitational waves

*Space, time and gravitation* Sir Arthur Eddington, 1966

**Gravity** James B. Hartle, 2021-06-24 Einstein's theory of general relativity is a cornerstone of modern physics It also touches upon a wealth of topics that students find fascinating black holes warped spacetime gravitational waves and cosmology Now reissued by Cambridge University Press this ground breaking text helped to bring general relativity into the undergraduate curriculum making it accessible to virtually all physics majors One of the pioneers of the physics first approach to the subject renowned relativist James B Hartle recognized that there is typically not enough time in a short introductory course for the traditional mathematics first approach In this text he provides a fluent and accessible physics first introduction to general relativity that begins with the essential physical applications and uses a minimum of new mathematics This market leading text is ideal for a one semester course for undergraduates with only introductory mechanics as a prerequisite

**Space, Time and Gravitation** Sir Arthur

Stanley Eddington,1920      Spacetime and Gravitation Wojciech Kopczynski, Andrzej Trautman,1992-01-30 Ideas about space and time are at the root of one's understanding of nature both at the intuitive level of everyday experience and in the framework of sophisticated physical theories These ideas have led to the development of geometry and its applications to physics The contemporary physical theory of space and time including its extension to the phenomena of gravitation is Einstein's theory of relativity Spacetime and Gravitation is a short introduction to this theory It is addressed to a fairly wide readership parts of it can be read by university students of mathematics physics and engineering A great deal of emphasis is given to the geometrical aspects of relativity theory and its comparison with the Newtonian view of the world There are short chapters on the origins of Einstein's theory gravitational waves cosmology spinors and the Einstein Cartan theory

Space-time Jonathan Allday,2019-05-28 This book suitable for interested post 16 school pupils or undergraduates looking for a supplement to their course text develops our modern view of space time and its implications in the theories of gravity and cosmology While aspects of this topic are inevitably abstract the book seeks to ground thinking in observational and experimental evidence where possible In addition some of Einstein's philosophical thoughts are explored and contrasted with our modern views Written in an accessible yet rigorous style Jonathan Allday a highly accomplished writer brings his trademark clarity and engagement to these fascinating subjects which underpin so much of modern physics Features Restricted use of advanced mathematics making the book suitable for post 16 students and undergraduates Contains discussions of key modern developments in quantum gravity and the latest developments in the field including results from the Laser Interferometer Gravitational Wave Observatory LIGO Accompanied by appendices on the CRC Press website featuring detailed mathematical arguments for key derivations      Space, Time and Gravitation Arthur Stanley Eddington

(Sir),1959      **Spacetime, Geometry and Gravitation** Pankaj Sharan,2009-09-18 This introductory textbook on the general theory of relativity presents a solid foundation for those who want to learn about relativity The subject is presented in a physically intuitive but mathematically rigorous style The topic of relativity is covered in a broad and deep manner Besides the aim is that after reading the book a student should not feel discouraged when she opens advanced texts on general relativity for further reading The book consists of three parts An introduction to the general theory of relativity Geometrical mathematical background material Topics that include the action principle weak gravitational fields and gravitational waves Schwarzschild and Kerr solution and the Friedman equation in cosmology The book is suitable for advanced graduates and graduates but also for established researchers wishing to be educated about the field      *The Curvature of Spacetime* Harald Fritzsch,2004-12 The internationally renowned physicist Harald Fritzsch deftly explains the meaning and far flung implications of the general theory of relativity and other mysteries of modern physics by presenting an imaginary conversation among Newton Einstein and a fictitious contemporary particle physicist named Adrian Haller the same device Fritzsch employed to great acclaim in his earlier book *An Equation That Changed the World* which focused on the special

theory of relativity Einstein's theory of gravitation his general theory of relativity touches on basic questions of our existence Matter according to Einstein has no existence independent of space and time It is even capable of bending the structure of space and changing the course of time it introduces a curvature Gravity emerges not as an actual physical force but as a consequence of space time geometry Even the apple that drops from the tree follows the curvature of time and space In this entertaining and involving account of relativity Newton serves as the skeptic and asks the questions a modern reader might ask Einstein himself does the explaining while Haller explains the new developments that have occurred since the general theory was proposed The result is an intellectual roller coaster ride in which concepts that have entered the vernacular become clear for the first time the Big Bang black holes elementary particles and much more General Relativity and Gravitation, 1986 **Spacetime And Geometry** Richard A. Matzner, L. C. Shepley, 2012-03-21 These reports at the forefront of relativity theory when they were written in particular the geometrical aspects of spacetime theory were the result of the Alfred Schild Memorial Lecture Series presented at the University of Texas at Austin beginning in 1977 Each article is a self contained summary of an important area of contemporary gravitational physics while the book as a whole provides an overview of a wide variety of the problems of general relativity and gravitation **Topics in the Foundations of General Relativity and Newtonian Gravitation Theory** David B. Malament, 2012-04-02 In Topics in the Foundations of General Relativity and Newtonian Gravitation Theory David B Malament presents the basic logical mathematical structure of general relativity and considers a number of special topics concerning the foundations of general relativity and its relation to Newtonian gravitation theory These special topics include the geometrized formulation of Newtonian theory also known as Newton Cartan theory the concept of rotation in general relativity and  $G$  del spacetime One of the highlights of the book is a no go theorem that can be understood to show that there is no criterion of orbital rotation in general relativity that fully answers to our classical intuitions Topics is intended for both students and researchers in mathematical physics and philosophy of science

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