



# Gravity

An Introduction to Einstein's General Relativity

James B. Hartle

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# Gravity An Introduction To Einsteins General Relativity

**A. Zee**



## **Gravity An Introduction To Einsteins General Relativity:**

*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.

*Einstein's General Theory of Relativity* Brian P. Dolan, 2023-06-29 Einstein's general theory of relativity can be a notoriously difficult subject for students approaching it for the first time, with arcane mathematical concepts such as connection coefficients and tensors adorned with a forest of indices. This book is an elementary introduction to Einstein's theory and the physics of curved spacetimes that avoids these complications as much as possible. Its first half describes the physics of black holes, gravitational waves, and the expanding Universe without using tensors. Only in the second half are Einstein's field equations derived and used to explain the dynamical evolution of the early Universe and the creation of the first elements. Each chapter concludes with problem sets, and technical mathematical details are given in the appendices. This short text is intended for undergraduate physics students who have taken courses in special relativity and advanced mechanics.

*Einstein Gravity in a Nutshell* Anthony Zee, 2013-05-05 An ideal introduction to Einstein's general theory of relativity. This unique textbook provides an accessible introduction to Einstein's general theory of relativity, a subject of breathtaking beauty and supreme importance in physics. With his trademark blend of wit and incisiveness, A. Zee guides readers from the fundamentals of Newtonian mechanics to the most exciting frontiers of research today, including de Sitter and anti-de Sitter spacetimes, Kaluza-Klein theory, and brane worlds. Unlike other books on Einstein gravity, this book emphasizes the action principle and group theory as guides in constructing physical theories. Zee treats various topics in a spiral style that is easy on beginners and includes anecdotes from the history of physics that will appeal to students and experts alike. He takes a friendly approach to the required mathematics yet does not shy away from more advanced mathematical topics such as differential forms. The extensive discussion of black holes includes rotating and extremal black holes and Hawking radiation. The ideal textbook for undergraduate and graduate students, *Einstein Gravity in a Nutshell* also provides an essential resource for professional physicists and is accessible to anyone familiar with classical mechanics and electromagnetism. It features numerous exercises as well as detailed appendices covering a multitude of topics not readily found elsewhere. Provides an accessible introduction to Einstein's general theory of relativity. Guides readers from Newtonian

mechanics to the frontiers of modern research Emphasizes symmetry and the Einstein Hilbert action Covers topics not found in standard textbooks on Einstein gravity Includes interesting historical asides Features numerous exercises and detailed appendices Ideal for students physicists and scientifically minded lay readers Solutions manual available only to teachers

**General Relativity** Steven Carlip, 2019-01-17 Einstein's general theory of relativity currently our best theory of gravity is important not only to specialists but to a much wider group of physicists This short textbook on general relativity and gravitation offers students glimpses of the vast landscape of science connected to general relativity It incorporates some of the latest research in the field The book is aimed at readers with a broad range of interests in physics from cosmology to gravitational radiation to high energy physics to condensed matter theory The pedagogical approach is physics first readers move very quickly to the calculation of observational predictions and only return to the mathematical foundations after the physics is established In addition to the standard topics covered by most introductory textbooks it contains short introductions to more advanced topics for instance why field equations are second order how to treat gravitational energy and what is required for a Hamiltonian formulation of general relativity A concluding chapter discusses directions for further study from mathematical relativity to experimental tests to quantum gravity This is an introductory text but it has also been written as a jumping off point for readers who plan to study more specialized topics

**Introduction to Einstein's Theory of Relativity** Øyvind Grøn, 2020-05-28 The revised and updated 2nd edition of this established textbook provides a self contained introduction to the general theory of relativity describing not only the physical principles and applications of the theory but also the mathematics needed in particular the calculus of differential forms Updated throughout the book contains more detailed explanations and extended discussions of several conceptual points and strengthened mathematical deductions where required It includes examples of work conducted in the ten years since the first edition of the book was published for example the pedagogically helpful concept of a river of space and a more detailed discussion of how far the principle of relativity is contained in the general theory of relativity Also presented is a discussion of the concept of the gravitational field in Einstein's theory and some new material concerning the twin paradox in the theory of relativity Finally the book contains a new section about gravitational waves exploring the dramatic progress in this field following the LIGO observations Based on a long established masters course the book serves advanced undergraduate and graduate level students and also provides a useful reference for researchers

**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

**General Relativity** Hans Stephani, 1990-06-29 This is an excellent introduction to the subjects of gravitation and space time structure It discusses the foundations of Riemann geometry the derivation of Einstein field equations linearised theory far fields and gravitational waves the invariant characterisation of exact solutions gravitational collapse cosmology as well as alternative gravitational theories and the problem of quantum gravity

**On Gravity** Anthony Zee, 2020-03-10 Of the four fundamental forces of nature gravity might be the least understood and yet the one with which we are most intimate From the months each of us spent suspended in the womb anticipating birth to the moments when we wait for sleep to transport us to other realities we are always aware of gravity In On Gravity physicist A Zee combines profound depth with incisive accessibility to take us on an original and compelling tour of Einstein's general theory of relativity Inspired by Einstein's audacious suggestion that spacetime could ripple Zee begins with the stunning discovery of gravity waves He goes on to explain how gravity can be understood in comparison to other classical field theories presents the idea of curved spacetime and the action principle and explores cutting edge topics including black holes and Hawking radiation Zee travels as far as the theory reaches leaving us with tantalizing hints of the utterly unknown from the intransigence of quantum gravity to the mysteries of dark matter and energy Concise and precise and infused with Zee's signature warmth and freshness of style On Gravity opens a unique pathway to comprehending relativity and gaining deep insight into gravity spacetime and the workings of the universe

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**Quantum Gravitation** Herbert W. Hamber, 2008-10-20 Quantum Gravitation approaches the subject from the point of view of Feynman path integrals which provide a manifestly covariant approach in which fundamental quantum aspects of the theory such as radiative corrections and the renormalization group can be systematically and consistently addressed It is shown that the path integral method is suitable for both perturbative as well as non perturbative studies and is already known to offer a framework for the theoretical investigation of non Abelian gauge theories the basis for three of the four known fundamental forces in nature The book thus provides a coherent outline of the present status of the theory gravity based on Feynman's formulation with an emphasis on quantitative results Topics are organized in such a way that the correspondence to similar methods and results in modern gauge theories becomes apparent Covariant perturbation theory are developed using the full machinery of Feynman rules gauge fixing background methods and ghosts The renormalization group for gravity and the existence of non trivial ultraviolet fixed points are investigated stressing a close correspondence with well understood statistical field theory models The final chapter addresses contemporary issues in quantum cosmology such as scale dependent gravitational constants and quantum effects in the early universe

*The*

*General Theory of Relativity* Farook Rahaman, 2021-09-30 The book aims to expound the general theory of relativity with a mathematical point of view Catering to the needs of postgraduate students and researchers in the field of astrophysics and mathematical physics it offers the readers a comprehensive understanding of the advanced topics of the subject matter It specifically discusses the mathematical foundation of tensor calculus gives a background of geodesics Einstein's field equations linearised gravity spacetime of spherically symmetric distribution of matter and black holes and particle and photon orbits in spacetime Apart from the formulation of general relativity Lie derivatives and its applications and causality of spacetime are also discussed in detail Certain preliminary concepts of extrinsic curvature Lagrangian formalism of general theory of relativity and 3+1 decomposition of space time are covered and are provided in the book as appendices **Einstein Gravity in a Nutshell** A. Zee, 2013-05-05 An ideal introduction to Einstein's general theory of relativity This unique textbook provides an accessible introduction to Einstein's general theory of relativity a subject of breathtaking beauty and supreme importance in physics With his trademark blend of wit and incisiveness A Zee guides readers from the fundamentals of Newtonian mechanics to the most exciting frontiers of research today including de Sitter and anti de Sitter spacetimes Kaluza Klein theory and brane worlds Unlike other books on Einstein gravity this book emphasizes the action principle and group theory as guides in constructing physical theories Zee treats various topics in a spiral style that is easy on beginners and includes anecdotes from the history of physics that will appeal to students and experts alike He takes a friendly approach to the required mathematics yet does not shy away from more advanced mathematical topics such as differential forms The extensive discussion of black holes includes rotating and extremal black holes and Hawking radiation The ideal textbook for undergraduate and graduate students Einstein Gravity in a Nutshell also provides an essential resource for professional physicists and is accessible to anyone familiar with classical mechanics and electromagnetism It features numerous exercises as well as detailed appendices covering a multitude of topics not readily found elsewhere Provides an accessible introduction to Einstein's general theory of relativity Guides readers from Newtonian mechanics to the frontiers of modern research Emphasizes symmetry and the Einstein Hilbert action Covers topics not found in standard textbooks on Einstein gravity Includes interesting historical asides Features numerous exercises and detailed appendices Ideal for students physicists and scientifically minded lay readers Solutions manual available only to teachers *General Relativity: The Essentials* Carlo Rovelli, 2021-09-09 In this short book renowned theoretical physicist and author Carlo Rovelli gives a straightforward introduction to Einstein's General Relativity our current theory of gravitation Focusing on conceptual clarity he derives all the basic results in the simplest way taking care to explain the physical philosophical and mathematical ideas at the heart of the most beautiful of all scientific theories Some of the main applications of General Relativity are also explored for example black holes gravitational waves and cosmology and the book concludes with a brief introduction to quantum gravity Written by an author well known for the clarity of his presentation of scientific ideas this concise book will appeal to university

students looking to improve their understanding of the principal concepts as well as science literate readers who are curious about the real theory of General Relativity at a level beyond a popular science treatment      **Gravitational Curvature**

Theodore Frankel, 2013-04-10 This classic text and reference monograph applies modern differential geometry to general relativity A brief mathematical introduction to gravitational curvature it emphasizes the subject's geometric essence and stresses the global aspects of cosmology Suitable for independent study as well as for courses in differential geometry relativity and cosmology 1979 edition      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      Einstein Walter

Isaacson, 2008-05-13 From Isaacson the bestselling author of Benjamin Franklin comes the first full biography of Albert Einstein since all his papers have become available a fully realized portrait of a premier icon of his era      *The Curious*

*History of Relativity* Jean Eisenstaedt, 2006 Black holes may obliterate most things that come near them but they saved the theory of general relativity Einstein's theory was quickly accepted as the true theory of gravity after its publication in 1915 but soon took a back seat in physics to quantum mechanics and languished for decades on the blackboards of mathematicians Not until the existence of black holes by Stephen Hawking and Roger Penrose in the 1960s after Einstein's death was the theory revived Almost one hundred years after general relativity replaced Newton's theory of gravitation The Curious History of Relativity tells the story of both events surrounding general relativity and the techniques employed by Einstein and the relativists to construct develop and understand his almost impenetrable theory Jean Eisenstaedt one of the world's leading experts on the subject also discusses the theory's place in the evolution of twentieth century physics He describes the main stages in the development of general relativity its beginnings its strange crossing of the desert during Einstein's lifetime while under heated criticism and its new life from the 1960s on when it became vital to the understanding of black holes and the observation of exotic objects and eventually to the discovery of the accelerating universe We witness Einstein's construction of his theory as well as the work of his fascinated discouraged and enthusiastic colleagues physicists mathematicians and astronomers Written with flair The Curious History of Relativity poses and answers the difficult questions raised by Einstein's magnificent intellectual feat      300 Problems in Special and General Relativity Mattias

Blennow, Tommy Ohlsson, 2021-12-09 A textbook neutral problems and solutions book that complements any relativity textbook at advanced undergraduate or masters level      **Springer Handbook of Spacetime** Abhay Ashtekar, Vesselin

Petkov,2014-09-01 The Springer Handbook of Spacetime is dedicated to the ground breaking paradigm shifts embodied in the two relativity theories and describes in detail the profound reshaping of physical sciences they ushered in It includes in a single volume chapters on foundations on the underlying mathematics on physical and astrophysical implications experimental evidence and cosmological predictions as well as chapters on efforts to unify general relativity and quantum physics The Handbook can be used as a desk reference by researchers in a wide variety of fields not only by specialists in relativity but also by researchers in related areas that either grew out of or are deeply influenced by the two relativity theories cosmology astronomy and astrophysics high energy physics quantum field theory mathematics and philosophy of science It should also serve as a valuable resource for graduate students and young researchers entering these areas and for instructors who teach courses on these subjects The Handbook is divided into six parts Part A Introduction to Spacetime Structure Part B Foundational Issues Part C Spacetime Structure and Mathematics Part D Confronting Relativity theories with observations Part E General relativity and the universe Part F Spacetime beyond Einstein     **Spacetime and Geometry** Sean M. Carroll,2019-08-08 Spacetime and Geometry is an introductory textbook on general relativity specifically aimed at students Using a lucid style Carroll first covers the foundations of the theory and mathematical formalism providing an approachable introduction to what can often be an intimidating subject Three major applications of general relativity are then discussed black holes perturbation theory and gravitational waves and cosmology Students will learn the origin of how spacetime curves the Einstein equation and how matter moves through it the geodesic equation They will learn what black holes really are how gravitational waves are generated and detected and the modern view of the expansion of the universe A brief introduction to quantum field theory in curved spacetime is also included A student familiar with this book will be ready to tackle research level problems in gravitational physics     Gravity James Hartle Staff,2003-05-01



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