**Graduate Texts in Physics** 

Ronald J. Adler

# General Relativity and Cosmology

A First Encounter





# **General Relativity Graduate Texts In Physics**

**Sean Carroll** 

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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

Differential Geometry and General Relativity Canbin Liang, Bin Zhou, 2023-08-28 This book the first in a three volume set explains general relativity using the mathematical tool of differential geometry. The book consists of ten chapters the first five of which introduce differential geometry which is widely applicable even outside the field of relativity Chapter 6 analyzes special relativity using geometric language In turn the last four chapters introduce readers to the fundamentals of general relativity Intended for beginners this volume includes numerous exercises and worked out example in each chapter to facilitate the learning experience Chiefly written for graduate level courses the book s content will also benefit upper level undergraduate students and can be used as a reference guide for practicing theoretical physicists **General Relativity** for Mathematicians R.K. Sachs, H.-H. Wu, 2012-12-06 This is a book about physics written for mathematicians The readers we have in mind can be roughly described as those who I are mathematics graduate students with some knowledge of global differential geometry 2 have had the equivalent of freshman physics and find popular accounts of astrophysics and cosmology interesting 3 appreciate mathematical elarity but are willing to accept physical motiva tions for the mathematics in place of mathematical ones 4 are willing to spend time and effort mastering certain technical details such as those in Section 1 1 Each book disappoints so me readers This one will disappoint 1 physicists who want to use this book as a first course on differential geometry 2 mathematicians who think Lorentzian manifolds are wholly similar to Riemannian ones or that given a sufficiently good mathematical back ground the essentials of a subject ike cosmology can be learned without so me hard work on boring details 3 those who believe vague philosophical arguments have more than historical and heuristic

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concepts and applications of General Relativity The book leads readers from the basic ideas of relativity including the Equivalence Principle and curved space time to more advanced topics like Solar System tests and gravitational wave detection Each chapter contains practice problems designed to engage undergraduate students of mechanics electrodynamics and special relativity A wide range of classical and modern topics are covered in detail from exploring observational successes and astrophysical implications to explaining many popular principles like space time redshift black holes gravitational waves and cosmology Advanced topic sections introduce the reader to more detailed mathematical approaches and complex ideas and prepare them for the exploration of more specialized and sophisticated texts Introducing General Relativity also offers Structured outlines to the concepts of General Relativity and a wide variety of its applications Comprehensive explorations of foundational ideas in General Relativity including space time curvature and tensor calculus Practical discussions of classical and modern topics in relativity from space time to redshift gravity black holes and gravitational waves Optional in depth sections covering the mathematical approaches to more advanced ideas Perfect for undergraduate physics students who have studied mechanics dynamics and Special Relativity Introducing General Relativity is an essential resource for those seeking an intermediate level discussion of General Relativity placed between the more qualitative books and graduate level textbooks Einstein's General Theory of Relativity Øyvind Grøn, Sigbjørn Hervik, 2025-11-10 This book is the second edition of the well received textbook on the theory of general relativity by yvind G Gr n and Sigbj rn Hervik It introduces the general theory of relativity and includes applications to cosmology The reader is given an updated introduction to general relativity including the most recent developments in cosmology The book contains a thorough introduction to tensor calculus and curved manifolds After the necessary mathematical tools are introduced the book provides a thorough presentation of the theory of relativity including a chapter on gravitational waves The most important additions in the second edition are included there Anisotropic cosmological models are also included The book contains many new exercises and examples each with separate headings Furthermore detailed solutions of all the exercises are included except those in the advanced section 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

**Spacetime and Geometry** Sean Carroll,2013-08 Spacetime and Geometry An Introduction to General Relativity provides a lucid and thoroughly modern introduction to general relativity for advanced undergraduates and graduate students It introduces modern techniques and an accessible and lively writing style to what can often be a formal and intimidating subject Readers are led from physics of flat spacetime special relativity through the intricacies of differential geometry and Einstein's equations and on to exciting applications such as black holes gravitational radiation and cosmology Subtle points are illuminated throughout the text by careful and entertaining exposition A straightforward and lucid approach balancing mathematical rigor and physical insight are hallmarks of this important text. A Short Course in

General Relativity James A. Foster, J. David Nightingale, 2010-04-30 Suitable for a one semester course in general relativity for senior undergraduates or beginning graduate students this text clarifies the mathematical aspects of Einstein's theory of relativity without sacrificing physical understanding The text begins with an exposition of those aspects of tensor calculus and differential geometry needed for a proper treatment of the subject The discussion then turns to the spacetime of general relativity and to geodesic motion A brief consideration of the field equations is followed by a discussion of physics in the vicinity of massive objects including an elementary treatment of black holes and rotating objects. The main text concludes with introductory chapters on gravitational radiation and cosmology This new third edition has been updated to take account of fresh observational evidence and experiments It includes new sections on the Kerr solution in Chapter 4 and cosmological speeds of recession in Chapter 6 A more mathematical treatment of tensors and manifolds included in the 1st edition but omitted in the 2nd edition has been restored in an appendix Also included are two additional appendixes Special Relativity Review and The Chinese Connection and outline solutions to all exercises and problems making it especially suitable for 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 Differential Geometry and General *Relativity* Canbin Liang, Bin Zhou, 2024-09-16 This book the first in a three volume set explains general relativity using the mathematical tool of differential geometry The book consists of ten chapters the first five of which introduce differential geometry which is widely applicable even outside the field of relativity Chapter 6 analyzes special relativity using geometric language In turn the last four chapters introduce readers to the fundamentals of general relativity Intended for beginners this volume includes numerous exercises and worked out example in each chapter to facilitate the learning experience Chiefly written for graduate level courses the book s content will also benefit upper level undergraduate students and can be used as a reference guide for practicing theoretical physicists General Relativity for Mathematicians Rainer Kurt Special Relativity in General Frames Éric Gourgoulhon, 2013-08-20 Special Sachs, Hongxi Wu, Hung-Hsi Wu, 1977

relativity is the basis of many fields in modern physics particle physics quantum field theory high energy astrophysics etc This theory is presented here by adopting a four dimensional point of view from the start An outstanding feature of the book is that it doesn't restrict itself to inertial frames but considers accelerated and rotating observers. It is thus possible to treat physical effects such as the Thomas precession or the Sagnac effect in a simple yet precise manner In the final chapters more advanced topics like tensorial fields in spacetime exterior calculus and relativistic hydrodynamics are addressed In the last brief chapter the author gives a preview of gravity and shows where it becomes incompatible with Minkowsky spacetime Well illustrated and enriched by many historical notes this book also presents many applications of special relativity ranging from particle physics accelerators particle collisions quark gluon plasma to astrophysics relativistic jets active galactic nuclei and including practical applications Sagnac gyrometers synchrotron radiation GPS In addition the book provides some mathematical developments such as the detailed analysis of the Lorentz group and its Lie algebra The book is suitable for students in the third year of a physics degree or on a masters course as well as researchers and any reader interested in relativity Thanks to the geometric approach adopted this book should also be beneficial for the study of general relativity A modern presentation of special relativity must put forward its essential structures before illustrating them using concrete applications to specific dynamical problems Such is the challenge so successfully met of the beautiful book by ric Gourgoulhon excerpt from the Foreword by Thibault Damour **A Short Course in General Relativity** J. Foster, J. D. Nightingale, 1995 Suitable for a one semester course in general relativity for senior undergraduate or beginning graduate students this text clarifies the mathematical aspects of Einstein's general theory of relativity without sacrificing physical understanding The text begins with an exposition of those aspects of tensor calculus and differential geometry needed for a proper exposition of the subject The discussion then turns to the spacetime of general relativity and to geodesic motion comparisons and contrasts with Newton's theory being drawn where appropriate A brief consideration of the field equations is followed by a discussion of physics in the vicinity of massive objects including an elementary treatment of black holes Particular attention is paid to those aspects of the theory that have observational consequences. The book concludes with brief introductory chapters on gravitational radiation and cosmology and includes an appendix that reviews the special theory of relativity In preparing this new edition the authors have made extensive revisions to the original text In particular the first three chapters covering coordinate systems tensors and the geometry of curved spaces have been completely rewritten to make the material readily accessible to physics students Many examples exercises and problems help guide the student through the theory 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 The Physical and Mathematical Foundations of the Theory of Relativity Antonio Romano, Mario Mango Furnari, 2019-09-25 This unique textbook offers a mathematically rigorous presentation of the theory of relativity emphasizing the need for a critical analysis

of the foundations of general relativity in order to best study the theory and its implications. The transitions from classical mechanics to special relativity and then to general relativity are explored in detail as well helping readers to gain a more profound and nuanced understanding of the theory as a whole After reviewing the fundamentals of differential geometry and classical mechanics the text introduces special relativity first using the physical approach proposed by Einstein and then via Minkowski s mathematical model. The authors then address the relativistic thermodynamics of continua and electromagnetic fields in matter topics which are normally covered only very briefly in other treatments in the next two chapters. The text then turns to a discussion of general relativity by means of the authors unique critical approach underlining the difficulty of recognizing the physical meaning of some statements such as the physical meaning of coordinates and the derivation of physical quantities from those of space time Chapters in this section cover the model of space time proposed by Schwarzschild black holes the Friedman equations and the different cosmological models they describe and the Fermi Walker derivative Well suited for graduate students in physics and mathematics who have a strong foundation in real analysis classical mechanics and general physics this textbook is appropriate for a variety of graduate level courses that cover topics in relativity Additionally it will interest physicists and other researchers who wish to further study the subtleties of these theories and understand the contemporary scholarly discussions surrounding them

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