

Second Edition

A First Course in GENERAL RELATIVITY



Bernard Schutz

A First Course In General Relativity

Yvonne Choquet-Bruhat



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A Student's Manual for A First Course in General Relativity Robert B. Scott, 2016-01-21 This comprehensive student manual has been designed to accompany the leading textbook by Bernard Schutz *A First Course in General Relativity* and uses detailed solutions cross referenced to several introductory and more advanced textbooks to enable self learners undergraduates and postgraduates to master general relativity through problem solving The perfect accompaniment to Schutz's textbook this manual guides the reader step by step through over 200 exercises with clear easy to follow derivations It provides detailed solutions to almost half of Schutz's exercises and includes 125 brand new supplementary problems that address the subtle points of each chapter It includes a comprehensive index and collects useful mathematical results such as transformation matrices and Christoffel symbols for commonly studied spacetimes in an appendix Supported by an online table categorising exercises a Maple worksheet and an instructors manual this text provides an invaluable resource for all students and instructors using Schutz's textbook

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Gabor Kunstatler, Saurya Das, 2020-10-19 This book provides an in depth and accessible description of special relativity and quantum mechanics which together form the foundation of 21st century physics A novel aspect is that symmetry is given its rightful prominence as an integral part of this foundation The book offers not only a conceptual understanding of symmetry but also the mathematical tools necessary for quantitative analysis As such it provides a valuable precursor to more focused advanced books on special relativity or quantum mechanics Students are introduced to several topics not typically covered until much later in their education These include space time diagrams the action principle a proof of Noether s theorem Lorentz vectors and tensors symmetry breaking and general relativity The book also provides extensive descriptions on topics of current general interest such as gravitational waves cosmology Bell s theorem entanglement and quantum computing Throughout the text every opportunity is taken to emphasize the intimate connection between physics symmetry and mathematics The style remains light despite the rigorous and intensive content The book is intended as a stand alone or supplementary physics text for a one or two semester course for students who have completed an introductory calculus course and a first year physics course that includes Newtonian mechanics and some electrostatics Basic knowledge of linear algebra is useful but not essential as all requisite mathematical background is provided either in the body of the text or in the Appendices Interspersed through the text are well over a hundred worked examples and unsolved exercises for the student

Gravity from the Ground Up Bernard Schutz, 2003-12-04 This book invites the reader to understand our Universe not just marvel at it From the clock like motions of the planets to the catastrophic collapse of a star into a black hole gravity controls the Universe Gravity is central to modern physics helping to answer the deepest questions about the nature of time the origin of the Universe and the unification of the forces of nature Linking key experiments and observations through careful physical reasoning the author builds the reader s insight step by step from simple but profound facts about gravity on Earth to the frontiers of research Topics covered include the nature of stars and galaxies the mysteries of dark matter and dark energy black holes gravitational waves inflation and the Big Bang Suitable for general readers and for undergraduate courses the treatment uses only high school level mathematics supplemented by optional computer programs to explain the laws of physics governing gravity *General Relativity* M. P. Hobson, G. P. Efstathiou, A. N. Lasenby, 2006-02-02 *General Relativity An Introduction for Physicists* provides a clear mathematical introduction to Einstein s theory of general relativity It presents a wide range of applications of the theory concentrating on its physical consequences After reviewing the basic concepts the authors present a clear and intuitive discussion of the mathematical background including the necessary tools of tensor calculus and differential geometry These tools are then used to develop the topic of special relativity and to discuss electromagnetism in Minkowski spacetime Gravitation as spacetime curvature is then introduced and the field equations of general relativity derived After applying the theory to a wide range of physical situations the book concludes with a brief

discussion of classical field theory and the derivation of general relativity from a variational principle Written for advanced undergraduate and graduate students this approachable textbook contains over 300 exercises to illuminate and extend the discussion in the text

A Short Course in General Relativity James Foster, J. David Nightingale, 2013-03-14 Suitable as 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

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A Student's Manual for A First Course in General Relativity, Third Edition Robert B. Scott, 2026-08-31

An Introduction to Relativity Jayant Vishnu Narlikar, 2010 General relativity is now an essential part of undergraduate and graduate courses in physics astrophysics and applied mathematics This simple user friendly introduction to relativity is ideal for a first course in the subject Beginning with a comprehensive but simple review of special relativity the book creates a framework from which to launch the ideas of general relativity After describing the basic theory it moves on to describe important applications to astrophysics black hole physics and cosmology Several worked examples and numerous figures and images help students appreciate the underlying concepts There are also 180 exercises which test and develop students understanding of the subject The textbook presents all the necessary information and discussion for an elementary approach to relativity Password protected solutions to the exercises are available to instructors at www.cambridge.org 9780521735612 Provided by publisher

General Relativity and Cosmology Tai L. Chow, 1994

A Relativist's Toolkit Eric Poisson, 2004-05-06 This 2004 textbook fills a gap in the literature on general relativity by providing the advanced student with practical tools for the computation of many physically interesting quantities The context is

provided by the mathematical theory of black holes one of the most elegant successful and relevant applications of general relativity Among the topics discussed are congruencies of timelike and null geodesics the embedding of spacelike timelike and null hypersurfaces in spacetime and the Lagrangian and Hamiltonian formulations of general relativity Although the book is self contained it is not meant to serve as an introduction to general relativity Instead it is meant to help the reader acquire advanced skills and become a competent researcher in relativity and gravitational physics The primary readership consists of graduate students in gravitational physics It will also be a useful reference for more seasoned researchers working in this field

Relativistic Hydrodynamics Luciano Rezzolla, Olindo Zanotti, 2013-09-26 This book provides an up to date lively and approachable introduction to the mathematical formalism numerical techniques and applications of relativistic hydrodynamics The topic is presented here in a form which will be appreciated both by students and researchers in the field

General Relativity John Legat Martin, 1996 [An Introduction to Relativity](#) Jayant V. Narlikar, 2010-01-28 General relativity is now an essential part of undergraduate and graduate courses in physics astrophysics and applied mathematics This simple user friendly introduction to relativity is ideal for a first course in the subject Beginning with a comprehensive but simple review of special relativity the book creates a framework from which to launch the ideas of general relativity After describing the basic theory it moves on to describe important applications to astrophysics black hole physics and cosmology Several worked examples and numerous figures and images help students appreciate the underlying concepts There are also 180 exercises which test and develop students understanding of the subject The textbook presents all the necessary information and discussion for an elementary approach to relativity Password protected solutions to the exercises are available to instructors at www.cambridge.org/9780521735612

Understanding General Relativity Stephen E. Sutcliffe, 2021 **Introduction to General Relativity, Black Holes, and Cosmology** Yvonne Choquet-Bruhat, 2015 A precise yet simple introduction to the foundations and main consequences of General Relativity The first five chapters from Choquet Bruhat s *General Relativity and the Einstein Equations* 2008 have been updated with new sections and chapters on black holes gravitational waves singularities and more to form this textbook

[Lectures on General Relativity and Cosmology](#) Jayant Vishnu Narlikar, 1979

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