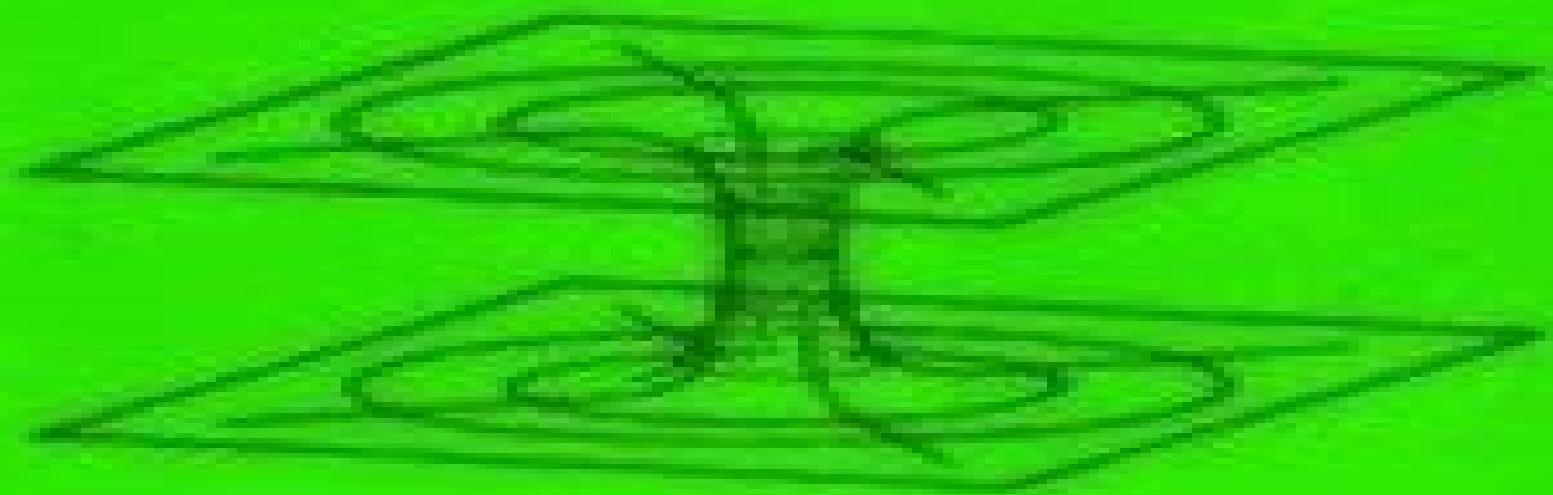


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# A first course in general relativity

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ROBERT A. MATTHEW - SCHUBERT



# First Course In General Relativity

**Robert B. Scott**



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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

**A first course in general relativity** Bernard F. Schutz, 1984

**A First Course in General Relativity** Bernard Schutz, 2022-06-30 This widely used textbook explains general relativity for advanced undergraduates requiring only a minimal background in mathematics

**General Relativity**, 1995

**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

### **Outlines and Highlights for a First Course in General Relativity by Bernard Schutz** Cram101 Textbook

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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     *A First Course in Loop Quantum Gravity* Rodolfo Gambini, Jorge Pullin, 2011-09-22 Loop quantum gravity is one of the modern contenders for a unified description of quantum mechanics and gravity Up to now no book has covered the material at the level of a college student or of other readers with some knowledge of college level physics This book fills that gap     **A First Course on Symmetry, Special Relativity and Quantum Mechanics** Gabor Kunstatter, Saurya Das, 2022-02-18 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     Understanding General Relativity Stephen E. Sutcliffe, 2021     **TENSORS made easy with SOLVED PROBLEMS** Giancarlo Bernacchi, 2015-06 New MARCH 2021 REVISED RELEASE A friendly and non formal approach to a subject of abstract mathematics that has important applications in physics especially in General Relativity but also in other fields The purpose of the book is mainly didactic and requires some mathematical background differential calculus partial derivatives included     Tensors made easy Giancarlo Bernacchi, 2019-09-10 New September 2019 revised edition A friendly and non formal approach to a subject of abstract

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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**First Course In General Relativity**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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