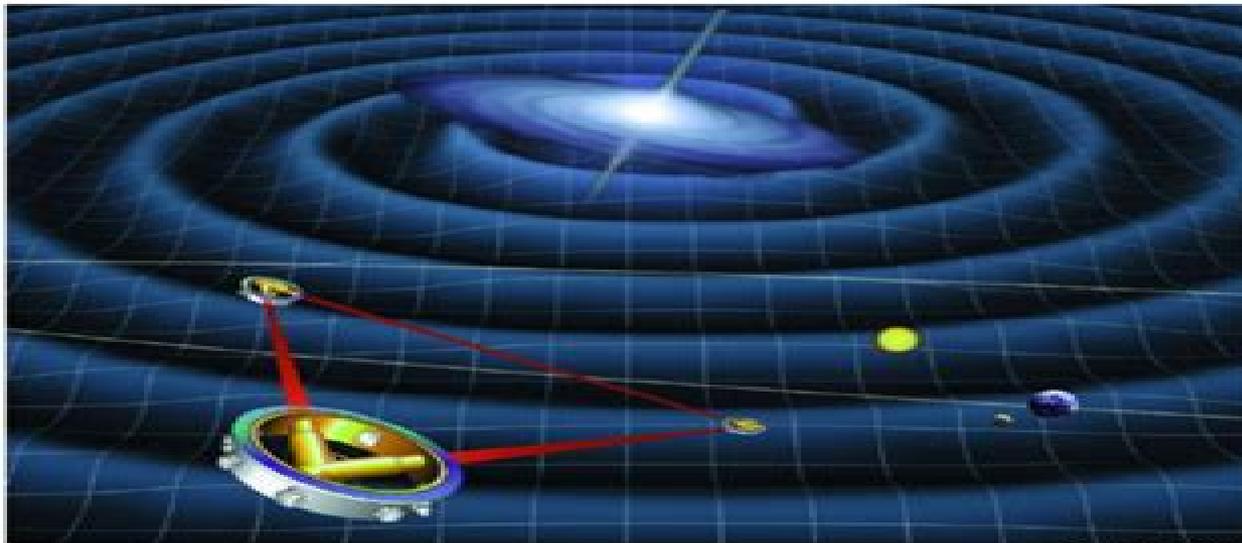


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[A Student's Manual for A First Course in General Relativity](#) Robert B. Scott, 2016-01-21 This comprehensive student manual has been designed to accompany the leading textbook by Bernard Schutz, *A First Course in General Relativity*, and uses detailed 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.

[Introduction To General Relativity: Solutions To Problems](#) John Dirk Walecka, 2017-06-16 It is important for every physicist today to have a working knowledge of Einstein's theory of general relativity. *Introduction to General Relativity*, published in 2007, was aimed at first year graduate students or advanced undergraduates in physics. Only a basic understanding of classical Lagrangian mechanics is assumed; beyond that, the reader should find the material to be self contained. The mechanics problem of a point mass constrained to move without friction on a two dimensional surface of arbitrary shape serves as a paradigm for the development of the mathematics and physics of general relativity. Special relativity is reviewed. The basic principles of general relativity are then presented and the most important applications are

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Joyce in the Belly of the Big Truck; Workbook Joyce A. Cascio,2005-05 Notices of the American Mathematical Society American Mathematical Society,1990 *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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