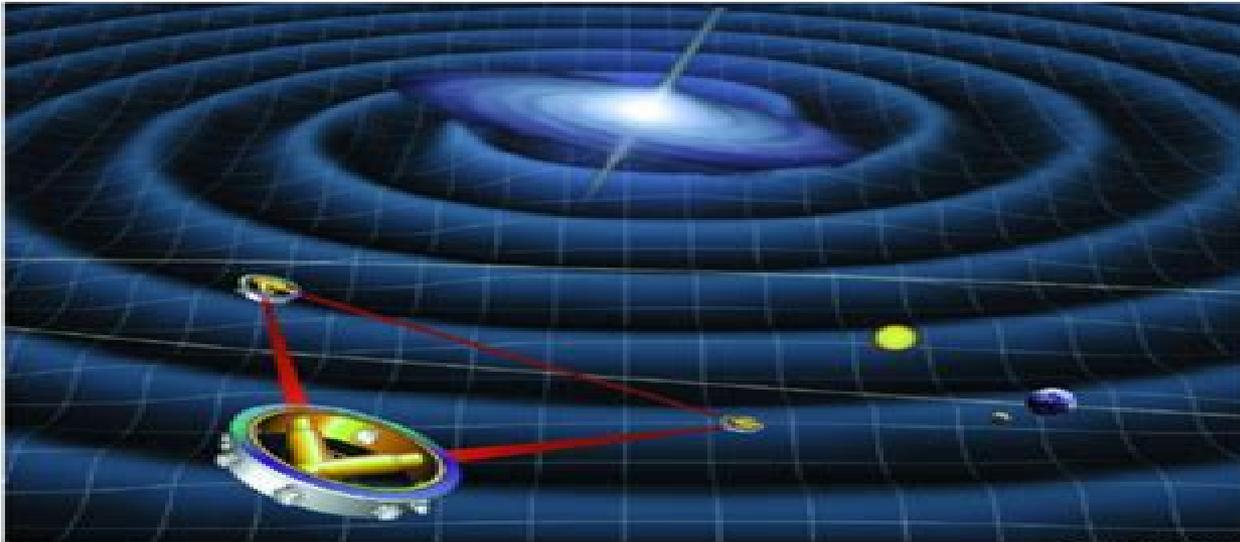


# A General Relativity Workbook



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# General Relativity Workbook Solutions

**John Dirk Walecka**



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**A General Relativity Workbook** Thomas A. Moore, 2012-12-10 A General Relativity Workbook is a textbook intended to support a one semester upper division undergraduate course on general relativity. General relativity which lies at the heart of contemporary physics has recently become the focus of a number of lively theoretical, experimental, and computational research programs. As a result, undergraduates have become increasingly excited to learn about the subject. A General Relativity Workbook is a textbook intended to support a one semester upper division undergraduate course on general relativity. Through its unique workbook based design, it enables students to develop a solid mastery of both the physics and the supporting tensor calculus by pushing and guiding them to work through the implications. Each chapter, which is designed to correspond to one class session, involves a short overview of the concepts without obscuring derivations or details, followed by a series of boxes that guide students through the process of working things out for themselves. This active learning approach enables students to develop a more secure mastery of the material than more traditional approaches. More than 350 homework problems support further learning. This book more strongly emphasizes the physics than many of its competitors, and while it provides students a full grounding in the supporting mathematics, unlike certain other competitors, it introduces the mathematics gradually and in a completely physical context.

**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 discussed. The final special topics section takes the reader up to a few areas of current research. An extensive set of accessible problems enhances and extends the coverage. As a learning and teaching tool, this current book provides solutions to those problems. This text and solutions manual are meant to provide an introduction to the subject. It is hoped that these books will allow the reader to approach the more advanced texts and monographs as well as the continual influx of fascinating new experimental results with a deeper understanding and sense of appreciation.

*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.

**Special Relativity** Michael Tsamparlis, 2010-05-17 Writing a new book on the classic subject of Special Relativity, on which numerous important physicists have contributed and many books have already been written, can be like adding another epicycle to the Ptolemaic cosmology. Furthermore, it is our belief that if a book has no new elements but simply repeats what

is written in the existing literature perhaps with a different style then this is not enough to justify its publication However after having spent a number of years both in class and research with relativity I have come to the conclusion that there exists a place for a new book Since it appears that somewhere along the way mathematics may have obscured and prevailed to the degree that we tend to teach relativity and I believe theoretical physics simply using heavier mathematics without the inspiration and the mastery of the classic physicists of the last century Moreover current trends encourage the application of techniques in producing quick results and not tedious conceptual approaches resulting in long lasting reasoning On the other hand physics cannot be done a la carte stripped from philosophy or to put it in a simple but dramatic context A building is not an accumulation of stones As a result of the above a major aim in the writing of this book has been the distinction between the mathematics of Minkowski space and the physics of relativity

Problem Book in Relativity and Gravitation Alan P. Lightman,1975-12-21 The authors have attempted to convey a mode of approach to these kinds of problems revealing procedures that can reduce the labor of calculations while avoiding the pitfall of too much or too powerful formalism

**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

**A Student's Guide to General Relativity** Norman Gray,2019-01-03 This compact guide presents the key features of general relativity to support and supplement the presentation in mainstream more comprehensive undergraduate textbooks or as a re cap of essentials for graduate students pursuing more advanced studies It helps students plot a careful path to understanding the core ideas and basics of differential geometry as applied to general relativity without overwhelming them While the guide doesn't shy away from necessary technicalities it emphasises the essential simplicity of the main physical arguments Presuming a familiarity with special relativity with a brief account in an appendix it describes how general covariance and the equivalence principle motivate Einstein's theory of gravitation It then introduces differential geometry and the covariant derivative as the

mathematical technology which allows us to understand Einstein's equations of general relativity. The book is supported by numerous worked examples and problems and important applications of general relativity are described in an appendix.

Notices of the American Mathematical Society American Mathematical Society, 1990     **An Introduction to General Relativity** L. P. Hughston, K. P. Tod, 1990. This textbook provides an introduction to general relativity for mathematics undergraduates or graduate physicists. After a review of Cartesian tensor notation and special relativity, the concepts of Riemannian differential geometry are introduced. More emphasis is placed on an intuitive grasp of the subject and a calculational facility than on a rigorous mathematical exposition. General relativity is then presented as a relativistic theory of gravity, reducing in the appropriate limits to Newtonian gravity or special relativity. The Schwarzschild solution is derived and the gravitational red shift, time dilation, and classic tests of general relativity are discussed. There is a brief account of gravitational collapse and black holes based on the extended Schwarzschild solution. Other vacuum solutions are described, motivated by their counterparts in linearised general relativity. The book ends with chapters on cosmological solutions to the field equations. There are exercises attached to each chapter, some of which extend the development given in the text.     *The Cumulative Book Index*, 1983. A world list of books in the English language.     **Joyce in the Belly of the Big Truck; Workbook** Joyce A. Cascio, 2005-05     Applied General Relativity Michael H. Soffel, Wen-Biao Han, 2019-09-23. In the late 20th and beginning 21st century, high precision astronomy, positioning, and metrology strongly rely on general relativity. Supported by exercises and solutions, this book offers graduate students and researchers entering those fields a self-contained and exhaustive but accessible treatment of applied general relativity. The book is written in a homogeneous graduate-level textbook style, allowing the reader to understand the arguments step by step. It first introduces the mathematical and theoretical foundations of gravity theory and then concentrates on its general relativistic applications: clock rates, clock synchronization, establishment of time scales, astronomical reference frames, relativistic astrometry, celestial mechanics, and metrology. The authors present up-to-date relativistic models for applied techniques such as Satellite LASER Ranging, SLR, Lunar LASER Ranging, LLR, Global Navigation Satellite Systems, GNSS, Very Large Baseline Interferometry, VLBI, radar measurements, gyroscopes, and pulsar timing. A list of acronyms helps the reader keep an overview, and a mathematical appendix provides required functions and terms.     The General Theory of Relativity Anadijiban Das, Andrew DeBenedictis, 2012-06-26. *The General Theory of Relativity: A Mathematical Exposition* will serve readers as a modern mathematical introduction to the general theory of relativity. Throughout the book, examples, worked-out problems, and exercises with hints and solutions are furnished. Topics in this book include, but are not limited to: tensor analysis, the special theory of relativity, the general theory of relativity, and Einstein's field equations, spherically symmetric solutions, and experimental confirmations, static and stationary space-time domains, black holes, cosmological models, algebraic classifications, and the Newman-Penrose equations, the coupled Einstein-Maxwell-Klein-Gordon equations, appendices.

covering mathematical supplements and special topics Mathematical rigor yet very clear presentation of the topics make this book a unique text for both university students and research scholars Anadijiban Das has taught courses on Relativity Theory at The University College of Dublin Ireland Jadavpur University India Carnegie Mellon University USA and Simon Fraser University Canada His major areas of research include among diverse topics the mathematical aspects of general relativity theory Andrew DeBenedictis has taught courses in Theoretical Physics at Simon Fraser University Canada and is also a member of The Pacific Institute for the Mathematical Sciences His research interests include quantum gravity classical gravity and semi classical gravity

**Introduction To General Relativity** John Dirk Walecka,2007-04-16 A working knowledge of Einstein's theory of general relativity is an essential tool for every physicist today This self contained book is an introductory text on the subject aimed at first year graduate students or advanced undergraduates in physics that assumes only a basic understanding of classical Lagrangian mechanics 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 After reviewing special relativity the basic principles of general relativity are presented and the most important applications are discussed The final special topics section guides the reader through a few important areas of current research This book will allow the reader to approach the more advanced texts and monographs as well as the continual influx of fascinating new experimental results with a deeper understanding and sense of appreciation

**Solutions of Exercises of General Relativity Simplified & Assessed** Taha Sochi,2020-07-29 This book contains detailed solutions of all the 606 exercises of my book General Relativity Simplified Assessed These exercises represent an integral part of the original book as they fill many gaps and provide essential extensions and elaborations

General Relativity Robert M. Wald,2010-05-15 Wald's book is clearly the first textbook on general relativity with a totally modern point of view and it succeeds very well where others are only partially successful The book includes full discussions of many problems of current interest which are not treated in any extant book and all these matters are considered with perception and understanding S Chandrasekhar A tour de force lucid straightforward mathematically rigorous exacting in the analysis of the theory in its physical aspect L P Hughston Times Higher Education Supplement Truly excellent A sophisticated text of manageable size that will probably be read by every student of relativity astrophysics and field theory for years to come James W York Physics Today

**General Relativity** Malcolm Ludvigsen,1999-05-28 Solutions and hints to selected exercises

**Introduction to General Relativity** Lewis Ryder,2020-01-16 A student friendly style over 100 illustrations and numerous exercises are brought together in this textbook for advanced undergraduate and beginning graduate students in physics and mathematics Lewis Ryder develops the theory of general relativity in detail Covering the core topics of black holes gravitational radiation and cosmology he provides an overview of general relativity and its modern ramifications The book contains chapters on gravitational radiation cosmology and connections between general relativity and the fundamental

physics of the microworld It explains the geometry of curved spaces and contains key solutions of Einstein's equations the Schwarzschild and Kerr solutions Mathematical calculations are worked out in detail so students can develop an intuitive understanding of the subject as well as learn how to perform calculations The book also includes topics concerned with the relation between general relativity and other areas of fundamental physics Selected solutions for instructors are available under Resources *Whitaker's Cumulative Book List*, 1985 British Book News British Council, 1991 Includes no 53a British wartime books for young people

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