

General Relativity

Robert M. Wald



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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

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 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

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

General relativity Gordon M. Wald,1984 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 *Student Solutions Manual and Study Guide for College Physics* John R. Gordon,2000 300
Problems in Special and General Relativity Mattias Blennow,Tommy Ohlsson,2021-12-31 Einstein s theories of special relativity and general relativity form a core part of today s undergraduate or Masters level physics curriculum This is a supplementary problem book or student s manual consisting of 150 problems in each of special and general relativity The problems which have been developed tested and refined by the authors over the past two decades are a mixture of short form and multi part extended problems with hints provided where appropriate Complete solutions are elaborated for every problem in a different section of the book some solutions include brief discussions on their physical or historical significance

Designed as a companion text to complement a main relativity textbook it does not assume access to any specific textbook This is a helpful resource for advanced students for self study a source of problems for university teaching assistants or as inspiration for instructors and examiners constructing problems for their lectures homework or exams

Student Solutions Manual with Study Guide for Serway/Jewett's Principles of Physics: A Calculus-Based Text, Volume 1 Raymond A. Serway, John W. Jewett, 2015-08-17 This two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text plus lists of important equations and concepts other study aids and answers to selected end of chapter questions Important Notice Media content referenced within the product description or the product text may not be available in the ebook version [Student Solutions Manual with Study Guide, Volume 2 for Serway/Vuille's College Physics, 10th](#) Raymond A. Serway, Chris Vuille, 2014-01-06 For Chapters 15 30 this manual contains detailed solutions to approximately twelve problems per chapter These problems are indicated in the textbook with boxed problem numbers The manual also features a skills section important notes from key sections of the text and a list of important equations and concepts *Student Solutions Manual for Use with Physics for Scientists and Engineers* Naeem Ahmed, 2014 *Essentials of College Physics* Raymond A. Serway, Chris Vuille, Charles Teague, John R. Gordon, 2006-03 For Chapters 1 14 this manual contains detailed solutions to approximately 12 problems per chapter These problems are indicated in the textbook with boxed problem numbers The manual also features a skills section important notes from key sections of the text and a list of important equations and concepts *Student Solutions Manual for Essential University Physics, Volume 2* Richard Wolfson, 2011-01-04 This solutions manual contains detailed solutions to all of the odd numbered end of chapter problems from the textbook all written in the IDEA problem solving framework *Student's Solution Manual for University Physics with Modern Physics Volumes 2 And 3 (Chs. 21-44)* Hugh D. Young, Roger A. Freedman, 2015-04-16 This volume covers Chapters 21 44 of the main text The Student s Solutions Manual provides detailed step by step solutions to more than half of the odd numbered end of chapter problems from the text All solutions follow the same four step problem solving framework used in the textbook

Student Solutions Manual for College Physics Randall D. Knight, Stuart Field, 2018-03-21 The solutions manuals contain detailed solutions to more than half of the odd numbered end of chapter problems from the textbook Following the problem solving strategy presented in the text thorough solutions are provided to carefully illustrate both the qualitative and quantitative steps in the problem solving process

Solutions Manual for Students Vol 1 Chapters 1-21 Paul A. Tipler, Frank J. Blatt, 1998-12-15

Student Solutions Manual with Study Guide, Volume 1 for Serway/Vuille's College Physics Raymond A. Serway, Chris Vuille, 2016-10-11 For Chapters 1 14 this manual contains detailed solutions to approximately twelve problems per chapter These problems are indicated in the textbook with boxed problem numbers The manual also features a skills section important notes from key sections of the text and a list of important equations and concepts Important Notice Media content referenced within the product description or the product

text may not be available in the ebook version Student Solutions Manual to Accompany Physics John D. Cutnell,2009-03-16 Designed to accompany Physics 8th Edition by John D Cutnell which was made for medical professionals who may struggle with making the leap to conceptual understanding and applying physics the eighth edition continues to build transferable problem solving skills It includes a set of features such as Analyzing Multiple Concept Problems Check Your Understanding Concepts Calculations and Concepts at a Glance This helps the reader to first identify the physics concepts then associate the appropriate mathematical equations and finally to work out an algebraic solution **Solutions Manual to Accompany Physics for Scientists and Engineers** James S. Walker,Paul Allen Tipler,1991 Student Solutions Manual to Accompany Physics Alan Giambattista,Betty McCarthy Richardson,Robert C. Richardson,2007 The Student Solutions Manual contains complete worked out solutions to selected end of chapter problems from the text

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