

GRAVITY
AN INTRODUCTION TO EINSTEIN'S
GENERAL RELATIVITY

SOLUTIONS MANUAL

James B. Hartle

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L. P. Hughston, K. P. Tod



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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

Gravity James B. Hartle, 2003 Providing relevant solutions of the Einstein equation this text introduces field equations of general relativity their supporting mathematics Emphasis is on the connection between observation theory and the phenomena of gravitational physics **Books in Print Supplement** ,2002 *Forthcoming Books* Rose Arny, 2003 **A**

Student's Manual for A First Course in General Relativity Robert B. Scott, 2016 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 Short Course in General Relativity** James A. Foster, J. David

Nightingale, 2010-04-30 Suitable for a one semester course in general relativity for senior undergraduates or beginning graduate students this text clarifies the mathematical aspects of Einstein s 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 treatment of the subject The discussion then turns to the spacetime of general relativity and to geodesic motion 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 and rotating objects The main text concludes with introductory chapters on gravitational radiation and cosmology This new third edition has been updated to take account of fresh observational evidence and experiments It includes new sections on the Kerr solution in Chapter 4 and cosmological speeds of recession in Chapter 6 A more mathematical treatment of tensors and manifolds included in the 1st edition but omitted in the 2nd edition has been restored in an appendix Also included are two additional appendixes Special Relativity Review and The Chinese Connection and outline solutions to all exercises and problems making it especially suitable for private study **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

Instructors Solution Manual James Hartle, 2003-02 **Gravity** James Hartle Staff, 2003-05-01 **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 **Solutions Manual to Einstein Gravity in a Nutshell** A. Zee, 2013-04-22 **A First Course in General Relativity** Bernard Schutz, 2009-05-14 Second edition of a widely used textbook providing the first step into general relativity for undergraduate students with minimal mathematical background

Problem Book in Relativity and Gravitation Alan P Lightman, William H. Press, Richard H. Price, Saul A. Teukolsky, 2017-09-01 An essential resource for learning about general relativity and much more from four leading experts Important and useful to every student of relativity this book is a unique collection of some 475 problems with solutions in the fields of special and general relativity gravitation relativistic astrophysics and cosmology The problems are expressed in broad physical terms to enhance their pertinence to readers with diverse backgrounds In their solutions 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 Although well suited for individual use the volume may also be used with one of the modern textbooks in general relativity

Introducing General Relativity Mark Hindmarsh, Andrew Liddle, 2022-04-25 Introducing General Relativity An accessible and engaging introduction to general relativity for undergraduates In Introducing General Relativity the authors deliver a structured introduction to the core concepts and applications of General Relativity The book leads readers from the basic ideas of relativity including the Equivalence Principle and curved space time to more advanced topics like Solar System tests and gravitational wave

detection Each chapter contains practice problems designed to engage undergraduate students of mechanics electrodynamics and special relativity A wide range of classical and modern topics are covered in detail from exploring observational successes and astrophysical implications to explaining many popular principles like space time redshift black holes gravitational waves and cosmology Advanced topic sections introduce the reader to more detailed mathematical approaches and complex ideas and prepare them for the exploration of more specialized and sophisticated texts Introducing General Relativity also offers Structured outlines to the concepts of General Relativity and a wide variety of its applications Comprehensive explorations of foundational ideas in General Relativity including space time curvature and tensor calculus Practical discussions of classical and modern topics in relativity from space time to redshift gravity black holes and gravitational waves Optional in depth sections covering the mathematical approaches to more advanced ideas Perfect for undergraduate physics students who have studied mechanics dynamics and Special Relativity Introducing General Relativity is an essential resource for those seeking an intermediate level discussion of General Relativity placed between the more qualitative books and graduate level textbooks **A Student's Guide to General Relativity** Norman Gray,2019-01-03 Vectors tensors and functions Manifolds vectors and differentiation Energy momentum and Einstein s equations

Introducing Einstein's Relativity Ray d'Inverno,James Vickers,2022-05-12 There is little doubt that Einstein s theory of relativity captures the imagination Not only has it radically altered the way we view the universe but the theory also has a considerable number of surprises in store This is especially so in the three main topics of current interest that this book reaches namely black holes gravitational waves and cosmology The main aim of this textbook is to provide students with a sound mathematical introduction coupled to an understanding of the physical insights needed to explore the subject Indeed the book follows Einstein in that it introduces the theory very much from a physical point of view After introducing the special theory of relativity the basic field equations of gravitation are derived and discussed carefully as a prelude to first solving them in simple cases and then exploring the three main areas of application This new edition contains a substantial extension content that considers new and updated developments in the field Topics include coverage of the advancement of observational cosmology the detection of gravitational waves from colliding black holes and neutron stars and advancements in modern cosmology Einstein s theory of relativity is undoubtedly one of the greatest achievements of the human mind Yet in this book the author makes it possible for students with a wide range of abilities to deal confidently with the subject Based on both authors experience teaching the subject this is achieved by breaking down the main arguments into a series of simple logical steps Full details are provided in the text and the numerous exercises while additional insight is provided through the numerous diagrams As a result this book makes an excellent course for any reader coming to the subject for the first time while providing a thorough understanding for any student wanting to go on to study the subject in depth **300 Problems in Special and General Relativity** Mattias Blennow,Tommy Ohlsson,2021-12-09 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.

General Relativity Without Calculus Jose Natario, 2011-07-30. General Relativity Without Calculus offers a compact but mathematically correct introduction to the general theory of relativity assuming only a basic knowledge of high school mathematics and physics. Targeted at first-year undergraduates and advanced high school students who wish to learn Einstein's theory beyond popular science accounts, it covers the basics of special relativity, Minkowski space-time, non-Euclidean geometry, Newtonian gravity, the Schwarzschild solution, black holes, and cosmology. The quick-paced style is balanced by over 75 exercises, including full solutions, allowing readers to test and consolidate their understanding.

Advanced General Relativity John Stewart, John M. Stewart, 1993-11-26. A self-contained introduction to advanced general relativity. *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 redshift, 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.

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