General Relativity

An Introduction for Physicists

M. P. Hobson, G. Efstathiou and A. N. Lasenby

General Relativity Hobson Solutions

K. F. Riley,M. P. Hobson,S. J. Bence

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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

Student Solutions Manual for Mathematical Methods for Physics and Engineering Kenneth Franklin Riley,Michael Paul Hobson,2006 The authors present a wide ranging and comprehensive textbook for physical scientists who need to use the tools of mathematics for practical purposes   *Student Solution Manual for Essential Mathematical Methods for the Physical Sciences* K. F. Riley,M. P. Hobson,2011-02-17 This Student Solution Manual provides complete solutions to all the odd numbered problems in Essential Mathematical Methods for the Physical Sciences It takes students through each problem step by step so they can clearly see how the solution is reached and understand any mistakes in their own working Students will learn by example how to select an appropriate method improving their problem solving skills   **Student Solution Manual for Foundation Mathematics for the Physical Sciences** K. F. Riley,M. P. Hobson,2011-03-28 This Student Solution Manual provides complete solutions to all the odd numbered problems in Foundation Mathematics for the Physical Sciences It takes students through each problem step by step so they can clearly see how the solution is reached and understand any mistakes in their own working Students will learn by example how to arrive at the correct answer and improve their problem solving skills   *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 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 **General Relativity Simplified & Assessed** Taha Sochi,2022-08-17 This book is about the general theory of relativity which is concisely labeled as general relativity The book is the result of a rather extensive view to the literature of this theory over most of its lifetime reflecting various stages of its development The book contains 129 solved problems as well as 606 exercises whose detailed solutions are published in another book that accompanies the present book The book also includes a detailed index and many cross references The book can be used as an introduction to general relativity at undergraduate and graduate levels Unlike most other books on general relativity which are mostly dedicated to the presentation justification application and validation of the formalism of the theory and hence rather minor attention is usually paid to the interpretation and epistemology of the theory this book is primarily interested in the interpretative and epistemological aspects of the theory *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 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   **The Cosmic Spacetime** Fulvio Melia,2020-11-03 The growth of cosmology into a precision science represents one of the most remarkable stories of the past century Much has been written chronicling this development but rarely has any of it focused on the most critical element of this work the cosmic spacetime itself Addressing this lacuna is the principal focus of this book documenting the growing body of evidence compelling us not only to use this famous solution to Einstein s equations in order to refine the current paradigm but to probe its foundation at a much deeper level Its excursion from the smallest to largest possible scales insightfully reveals an emerging link between the Universe we behold and the established tenets of our most fundamental physical theories Key Features Uncovers the critical link between the Local Flatness Theorem in general relativity and the symmetries informing the spacetime s metric coefficients Develops a physical explanation for some of the most unpalatable coincidences in cosmology Provides a sober assessment of the horizon problems precluding our full understanding of the early Universe Reveals a possible explanation for the origin of rest mass energy in Einstein s theory In spite of its technical layout this book does not shy away from introducing the principal players who have made the most enduring contributions to this field Anyone with a graduate level foundation in physics and astronomy will be able to easily follow its contents   **Modern General Relativity** Mike Guidry,2019-01-03 Einstein s general theory of relativity is widely considered to be one of the most elegant and successful scientific theories ever developed and it is increasingly being taught in a simplified form at advanced undergraduate level within both physics and mathematics departments Due to the increasing interest in gravitational physics in both the academic and the public sphere driven largely by widely publicised developments such as the recent observations of gravitational waves general relativity is also one of the most popular scientific topics pursued through self study Modern General Relativity introduces the reader to the general theory of relativity using an example based approach before describing some of its most important applications in cosmology and astrophysics such as gamma ray bursts neutron stars black holes and gravitational waves With hundreds of worked examples explanatory boxes and end of chapter problems this textbook provides a solid foundation for understanding one of the towering achievements of twentieth century physics   **General Relativistic Effects and Elliptic Functions** F.T. Hioe,David Kuebel,2024-03-19 This collection of articles highlights all possible trajectories of particles and light under the influence of a gravitational field of all possible strengths that may exist in our universe including that of a black hole and it also highlights the beautiful mathematical formulas that can express all these trajectories according to Einstein s theory of general relativity For this to be possible the authors use mathematical functions called elliptic functions that can describe orbits including the familiar circular elliptical parabolic and hyperbolic orbits Some readers can put aside technical terms such as Schwarzschild metric which simply specifies a certain

condition that excludes cases such as a spinning black hole and Parameter Space which simply specifies all possible energy momentum of an object or light and the character of the massive body black hole included and go directly to see the mathematical expressions that describe the trajectories and the relevant graphs   *Accretion Flows in Astrophysics* Nikolay Shakura,2018-10-03 This book highlights selected topics of standard and modern theory of accretion onto black holes and magnetized neutron stars The structure of stationary standard discs and non stationary viscous processes in accretion discs are discussed to the highest degree of accuracy analytic theory can provide including relativistic effects in flat and warped discs around black holes A special chapter is dedicated to a new theory of subsonic settling accretion onto a rotating magnetized neutron star The book also describes supercritical accretion in quasars and its manifestation in lensing events Several chapters cover the underlying physics of viscosity in astrophysical discs with some important aspects of turbulent viscosity generation The book is aimed at specialists as well as graduate students interested in the field of theoretical astrophysics   *Foundation Mathematics for the Physical Sciences* K. F. Riley,M. P. Hobson,2011-03-31 This tutorial style textbook develops the basic mathematical tools needed by first and second year undergraduates to solve problems in the physical sciences Students gain hands on experience through hundreds of worked examples self test questions and homework problems Each chapter includes a summary of the main results definitions and formulae Over 270 worked examples show how to put the tools into practice Around 170 self test questions in the footnotes and 300 end of section exercises give students an instant check of their understanding More than 450 end of chapter problems allow students to put what they have just learned into practice Hints and outline answers to the odd numbered problems are given at the end of each chapter Complete solutions to these problems can be found in the accompanying Student Solutions Manual Fully worked solutions to all problems password protected for instructors are available at www cambridge org foundation   Proceedings of the London Mathematical Society London Mathematical Society,1930 Papers presented to J E Littlewood on his 80th birthday issued as 3d ser v 14 A 1965   Higher Mathematics for Physics and Engineering Hiroyuki Shima,Tsuneyoshi Nakayama,2010-04-12 Due to the rapid expansion of the frontiers of physics and engineering the demand for higher level mathematics is increasing yearly This book is designed to provide accessible knowledge of higher level mathematics demanded in contemporary physics and engineering Rigorous mathematical structures of important subjects in these fields are fully covered which will be helpful for readers to become acquainted with certain abstract mathematical concepts The selected topics are Real analysis Complex analysis Functional analysis Lebesgue integration theory Fourier analysis Laplace analysis Wavelet analysis Differential equations and Tensor analysis This book is essentially self contained and assumes only standard undergraduate preparation such as elementary calculus and linear algebra It is thus well suited for graduate students in physics and engineering who are interested in theoretical backgrounds of their own fields Further it will also be useful for mathematics students who want to understand how certain abstract concepts in mathematics are

applied in a practical situation The readers will not only acquire basic knowledge toward higher level mathematics but also imbibe mathematical skills necessary for contemporary studies of their own fields **Relativity, Gravitation and Cosmology** Robert J. Lambourne,2010-06 The textbook introduces students to basic geometric concepts such as metrics connections and curvature before examining general relativity in more detail It shows the observational evidence supporting the theory and the description general relativity provides of black holes and cosmological spacetimes Beyond the Standard Model Cocktail Yann Gouttenoire,2023-01-01 This book provides a remarkable and complete survey of important questions at the interface between theoretical particle physics and cosmology After discussing the theoretical and experimental physics revolution that led to the rise of the Standard Model in the past century the author reviews all the major open puzzles among them the hierarchy problem the small value of the cosmological constant the matter antimatter asymmetry and the dark matter enigma including the state of the art regarding proposed solutions Also addressed are the rapidly expanding fields of thermal dark matter cosmological first order phase transitions and gravitational wave signatures In addition the book presents the original and interdisciplinary PhD research work of the author relating to Weakly Interacting Massive Particles around the TeV scale which are among the most studied dark matter candidates Motivated by the absence of experimental evidence for such particles this thesis explores the possibility that dark matter is much heavier than what is conventionally assumed A Novel Approach to Relativistic Dynamics Yaakov Friedman,Tzvi Scarr,2023-02-18 This self contained monograph provides a mathematically simple and physically meaningful model which unifies gravity electromagnetism optics and even some quantum behavior The simplicity of the model is achieved by working in the frame of an inertial observer and by using a physically meaningful least action principle The authors introduce an extension of the Principle of Inertia This gives rise to a simple physically meaningful action function Visualizations of the geometryare obtained by plotting the action function These visualizations may be used to compare the geometries of different types of fields Moreover a new understanding of the energy momentum of a field emerges The relativistic dynamics derived here properly describes motion of massive and massless objects under the influence of a gravitational and or an electromagnetic field and under the influence of isotropic media The reader will learn how to compute the precession of Mercury the deflection of light and the Shapiro time delay Also covered is the relativistic motion of binary stars including the generation of gravitational waves a derivation of Snell s Law and a relativistic description of spin We derive a complex valued prepotential of an electromagnetic field The prepotential is similar to the wave function in quantum mechanics The mathematics is accessible to students after standard courses in multivariable calculus and linear algebra For those unfamiliar with tensors and the calculus of variations these topics are developed rigorously in the opening chapters The unifying model presented here should prove useful to upper undergraduate and graduate students as well as to seasoned researchers **Mathematical Methods for Physics and Engineering** K. F. Riley,M. P. Hobson,S. J. Bence,2006-03-13 The third

edition of this highly acclaimed undergraduate textbook is suitable for teaching all the mathematics for an undergraduate course in any of the physical sciences As well as lucid descriptions of all the topics and many worked examples it contains over 800 exercises New stand alone chapters give a systematic account of the special functions of physical science cover an extended range of practical applications of complex variables and give an introduction to quantum operators Further tabulations of relevance in statistics and numerical integration have been added In this edition half of the exercises are provided with hints and answers and in a separate manual available to both students and their teachers complete worked solutions The remaining exercises have no hints answers or worked solutions and can be used for unaided homework full solutions are available to instructors on a password protected web site www cambridge org 9780521679718

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