

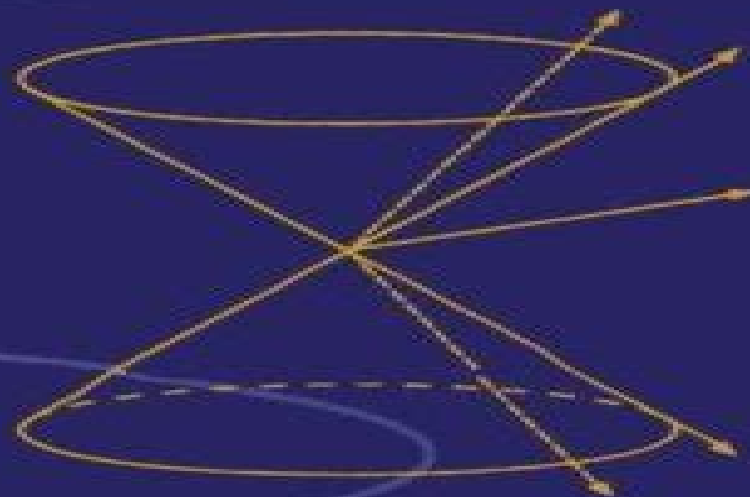
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IN

General Relativity



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Short Course In General Relativity

James Trefl



Short Course In General Relativity:

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

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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 Short Course in General Relativity and Cosmology Reinhard Hentschke, Christian Hölbling, 2020-06-23 Unlike most traditional introductory textbooks on relativity and cosmology that answer questions like Does accelerated expansion pull our bodies apart Does the presence of dark matter affect the classical tests of general relativity in a qualitative manner the present text is intended as a foundation enabling students to read and understand the textbooks and many of the scientific papers on the subject And above all the readers are taught and encouraged to do their own calculations check the numbers and answer the above and other questions regarding the most exciting discoveries and theoretical developments in general relativistic cosmology which have occurred since the early 1980s In comparison to these intellectual benefits the text is short In fact its brevity without neglect of scope or mathematical accessibility of key points is rather unique The authors connect the necessary mathematical concepts and their reward i e the understanding of an important piece of modern physics along the shortest path The unavoidable mathematical concepts and tools are presented in as straightforward manner as possible Even though the mathematics is not very difficult it certainly is beneficial to know some statistical thermodynamics as well as some quantum mechanics Thus the text is suitable for the upper undergraduate curriculum

A Short Course In General Relativity, 3E Foster, 2009-11-01

General Relativity and Gravitational Waves Sanjeev Dhurandhar, Sanjit Mitra, 2022-02-16 This book serves as a textbook for senior undergraduate students who are learning the subject of general relativity and gravitational waves for the first time Both authors have been teaching the course in various forms for a few decades and have designed the book as a one stop book at basic level including derivations and exercises A spectacular prediction of general relativity is gravitational waves Gravitational waves were first detected by the LIGO detectors in 2015 hundred years after their prediction Both authors are part of the LIGO Science Collaboration and were authors on the discovery paper Therefore a strong motivation for this book is to provide the essential concepts of general relativity theory and gravitational waves with their modern applications to students and to researchers who are new to the multi disciplinary field of gravitational wave astronomy One of the advanced topics covered in this book is the fundamentals of gravitational wave data analysis filling a gap in textbooks on general relativity The topic blends smoothly with other chapters in the book not only because of the common area of research but it uses similar differential geometric and algebraic tools that are used in general relativity

Einstein Gravity in a Nutshell Anthony Zee, 2013-05-05 An ideal introduction to Einstein's general theory of relativity This unique textbook provides an

accessible introduction to Einstein's general theory of relativity a subject of breathtaking beauty and supreme importance in physics With his trademark blend of wit and incisiveness A Zee guides readers from the fundamentals of Newtonian mechanics to the most exciting frontiers of research today including de Sitter and anti de Sitter spacetimes Kaluza Klein theory and brane worlds Unlike other books on Einstein gravity this book emphasizes the action principle and group theory as guides in constructing physical theories Zee treats various topics in a spiral style that is easy on beginners and includes anecdotes from the history of physics that will appeal to students and experts alike He takes a friendly approach to the required mathematics yet does not shy away from more advanced mathematical topics such as differential forms The extensive discussion of black holes includes rotating and extremal black holes and Hawking radiation The ideal textbook for undergraduate and graduate students Einstein Gravity in a Nutshell also provides an essential resource for professional physicists and is accessible to anyone familiar with classical mechanics and electromagnetism It features numerous exercises as well as detailed appendices covering a multitude of topics not readily found elsewhere Provides an accessible introduction to Einstein's general theory of relativity Guides readers from Newtonian mechanics to the frontiers of modern research Emphasizes symmetry and the Einstein Hilbert action Covers topics not found in standard textbooks on Einstein gravity Includes interesting historical asides Features numerous exercises and detailed appendices Ideal for students physicists and scientifically minded lay readers Solutions manual available only to teachers Relativistic Astrophysics and Cosmology Peter Hoyng, 2007-01-10 Relativistic Astrophysics and Cosmology offers a succinct and self contained treatment of general relativity and its application to compact objects gravitational waves and cosmology The required mathematical concepts are introduced informally following geometrical intuition as much as possible The approach is theoretical but there is ample discussion of observational aspects and of instrumental issues where appropriate The book includes such topical issues as the Gravity Probe B mission interferometer detectors of gravitational waves and the physics behind the angular power spectrum of the cosmic microwave background CMB Written for advanced undergraduates and beginning graduate students in astrophysics it is ideally suited for a lecture course and contains 140 exercises with extensive hints The reader is assumed to be familiar with linear algebra and analysis ordinary differential equations special relativity and basic thermal physics A Unified Grand Tour of Theoretical Physics Ian D. Lawrie, 2012-11-27 A Unified Grand Tour of Theoretical Physics invites its readers to a guided exploration of the theoretical ideas that shape our contemporary understanding of the physical world at the fundamental level Its central themes comprising space time geometry and the general relativistic account of gravity quantum field theory and the gauge theories of *A Unified Grand Tour of Theoretical Physics, 2nd edition* Ian D. Lawrie, 2015-05-05 A unified account of the principles of theoretical physics A Unified Grand Tour of Theoretical Physics Second Edition stresses the inter relationships between areas that are usually treated as independent The profound unifying influence of geometrical ideas the powerful formal similarities between statistical mechanics and quantum field theory

Einstein's Theory Øyvind Grøn, Arne Næss, 2011-08-30 This book provides an introduction to the theory of relativity and the mathematics used in its processes Three elements of the book make it stand apart from previously published books on the theory of relativity First the book starts at a lower mathematical level than standard books with tensor calculus of sufficient maturity to make it possible to give detailed calculations of relativistic predictions of practical experiments Self contained introductions are given for example vector calculus differential calculus and integrations Second in between calculations have been included making it possible for the non technical reader to follow step by step calculations Thirdly the conceptual development is gradual and rigorous in order to provide the inexperienced reader with a philosophically satisfying understanding of the theory The goal of this book is to provide the reader with a sound conceptual understanding of both the special and general theories of relativity and gain an insight into how the mathematics of the theory can be utilized to calculate relativistic effects

An Introduction to Relativistic Gravitation Remi Hakim, 1999-05-20 This is an introductory textbook on applications of general relativity to astrophysics and cosmology The aim is to provide graduate students with a toolkit for understanding astronomical phenomena that involve velocities close to that of light or intense gravitational fields The approach taken is first to give the reader a thorough grounding in special relativity with space time the central concept following which general relativity presents few conceptual difficulties Examples of relativistic gravitation in action are drawn from the astrophysical domain The book can be read on two levels first as an introductory fast track course and then as a detailed course reinforced by problems which illuminate technical examples The book has extensive links to the literature of relativistic astrophysics and cosmology

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 Mathematical Aspects of Paradoxes in Cosmology Michal Krížek, Lawrence Somer, 2023-07-05 This book provides a mathematical and numerical analysis of many problems which lead to paradoxes in contemporary cosmology in particular the existence of dark matter and dark energy It is shown that these hypothetical quantities arise from excessive extrapolations of simple mathematical models to the whole physical universe Written in a completely different style to most books on General Relativity and cosmology the important results take the form of mathematical theorems with precise

assumptions and statements All theorems are followed by a corresponding proof or an exact reference to the proof Some nonstandard topics are also covered including violation of the causality principle in Newtonian mechanics a critical mathematical and numerical analysis of Mercury's perihelion shift inapplicability of Einstein's equations to the classical two body problem due to computational complexity non uniqueness of the notion of universe the topology of the universe various descriptions of a hypersphere regular tessellations of hyperbolic spaces local Hubble expansion of the universe neglected gravitational redshift in the detection of gravitational waves and the possible distribution of mass inside a black hole The book also dispels some myths appearing in the theory of relativity and in contemporary cosmology For example although the hidden assumption that Einstein's equations provide a good description of the evolution of the whole universe is considered to be obvious it is just a null hypothesis which has not been verified by any experiment and has only been postulated by excessive extrapolations of many orders of magnitude

Field Propulsion System for Space Travel Takaaki Musha, Yoshinari Minami, 2011 This e book presents an overview of field propulsion systems for the use of space travel and interstellar travel Such systems include warp drive space drive and gravity control schemes and are propelled receiving the propulsive force derived from an in *The Encyclopedia of Science and Technology* James Trefil, 2001-08-24 Edited by acclaimed science writer and physicist James Trefil the Encyclopedia's 1000 entries combine in depth coverage with a vivid graphic format to bring every facet of science technology and medicine into stunning focus From absolute zero to the Mesozoic era to semiconductors to the twin paradox Trefil and his co authors have an uncanny ability to convey how the universe works and to show readers how to apply that knowledge to everyday problems

Variational Approach to Gravity Field Theories Alberto Vecchiato, 2017-05-30 This book offers a detailed and stimulating account of the Lagrangian or variational approach to general relativity and beyond The approach more usually adopted when describing general relativity is to introduce the required concepts of differential geometry and derive the field and geodesic equations from purely geometrical properties Demonstration of the physical meaning then requires the weak field approximation of these equations to recover their Newtonian counterparts The potential downside of this approach is that it tends to suit the mathematical mind and requires the physicist to study and work in a completely unfamiliar environment In contrast the approach to general relativity described in this book will be especially suited to physics students After an introduction to field theories and the variational approach individual sections focus on the variational approach in relation to special relativity general relativity and alternative theories of gravity Throughout the text solved exercises and examples are presented The book will meet the needs of both students specializing in theoretical physics and those seeking a better understanding of particular aspects of the subject

A Short Course on Spectral Theory William Arveson, 2006-04-18 This book presents the basic tools of modern analysis within the context of what might be called the fundamental problem of operator theory to calculate spectra of specific operators on infinite dimensional spaces especially operators on Hilbert spaces The tools are diverse and

they provide the basis for more refined methods that allow one to approach problems that go well beyond the computation of spectra the mathematical foundations of quantum physics noncommutative K theory and the classification of simple C algebras being three areas of current research activity that require mastery of the material presented here The notion of spectrum of an operator is based on the more abstract notion of the spectrum of an element of a complex Banach algebra After working out these fundamentals we turn to more concrete problems of computing spectra of operators of various types For normal operators this amounts to a treatment of the spectral theorem Integral operators require 2 the development of the Riesz theory of compact operators and the ideal L of Hilbert Schmidt operators Toeplitz operators require several important tools in order to calculate the spectra of Toeplitz operators with continuous symbol one needs to know the theory of Fredholm operators and index the structure of the Toeplitz C algebra and its connection with the topology of curves and the index theorem for continuous symbols

Idealization IX: Idealization in Contemporary Physics ,2023-05-30 Here is presented for the first time a comprehensive review and analysis of the several roles played by idealization procedures in the logic mathematics and models that lie at the heart of modern twentieth century physics It is only through idealization of one form or another that the objects and processes of modern physics become tractable The essays in this volume will be of interest to all those who are concerned with the uses of models in physics and the relationships between models and the real world The essays in this volume cover the role of idealization in all the main areas of modern physics ranging from quantum theory relativity theory and cosmology to chaos theory

New Results And Actual Problems In Particle & Astroparticle Physics And Cosmology - Proceedings Of Xxixth International Workshop On High Energy Physics Roman Anatolievich Ryutin,Vladimir Alexeevich Petrov,V Kiselev,2014-03-26 This unique volume contains the materials of the XXIXth International Workshop on High Energy Physics The content of the volume is much wider than just high energy physics and actually concerns all the most fundamental areas of modern physics research high energy physics proper gravitation and cosmology Presentations embrace both theory and experiment

Short Course In General Relativity Book Review: Unveiling the Magic of Language

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