

# GENERAL RELATIVITY

*An introduction to the  
theory of the  
gravitational field  
Second edition*

HANS STEPHANI

# General Relativity An Introduction To The Theory Of Gravitational Field

**Hans Stephani**



## **General Relativity An Introduction To The Theory Of Gravitational Field:**

**General Relativity** Hans Stephani, 1990-06-29 This is an excellent introduction to the subjects of gravitation and space time structure It discusses the foundations of Riemann geometry the derivation of Einstein field equations linearised theory far fields and gravitational waves the invariant characterisation of exact solutions gravitational collapse cosmology as well as alternative gravitational theories and the problem of quantum gravity *General Relativity* Hans Stephani, 1982 **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 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 **General Relativity** Steven Carlip, 2019-01-17 Einstein's general theory of relativity currently our best theory of gravity is important not only to specialists but to a much wider group of physicists This short textbook on general relativity and gravitation offers students glimpses of the vast landscape of science connected to general relativity It incorporates some of the latest research in the field The book is aimed at readers with a broad range of interests in physics from cosmology to gravitational radiation to high energy physics to condensed matter theory The pedagogical approach is physics first readers move very quickly to the calculation of observational predictions and only return to the mathematical foundations after the physics is established In addition to the standard topics covered by most introductory textbooks it contains short introductions to more advanced topics for instance why field equations are second order how to treat gravitational energy and what is required for a Hamiltonian formulation of general relativity A concluding chapter discusses directions for further study from mathematical relativity to experimental tests to quantum gravity This is an introductory text but it has also been written as a jumping off point for readers who plan to study more specialized topics **An Introduction to the Relativistic Theory of Gravitation** Petr Hajicek, 2008-12-15 The contemporary theoretical physics consists by and large of two independent parts The first is the quantum theory describing the micro world of elementary particles the second is the theory of gravity that concerns properties of macroscopic systems such as stars galaxies and the

universe The relativistic theory of gravitation which is known as general relativity was created at the beginning of the last century by more or less a single man from pure idea combinations and bold guessing The task was to marry the theory of gravity with the theory of special relativity The first attempts were aimed at considering the gravitational potential as a field in Minkowski space time All those attempts failed it took 10 years until Einstein finally solved the problem The difficulty was that the old theory of gravity as well as the young theory of special relativity had to be modified The next 50 years were difficult for this theory because its experimental basis remained weak and its complicated mathematical structure was not well understood However in the subsequent period this theory flourished Thanks to improvements in the technology and to the big progress in the methods of astronomical observations the amount of observable facts to which general relativity is applicable was considerably enlarged This is why general relativity is today one of the best experimentally tested theories while many competing theories could be disproved Also the conceptual and mathematical fundamentals are better understood now

**Spacetime and Geometry** Sean M. Carroll, 2019-08-08 Spacetime and Geometry is an introductory textbook on general relativity specifically aimed at students Using a lucid style Carroll first covers the foundations of the theory and mathematical formalism providing an approachable introduction to what can often be an intimidating subject Three major applications of general relativity are then discussed black holes perturbation theory and gravitational waves and cosmology Students will learn the origin of how spacetime curves the Einstein equation and how matter moves through it the geodesic equation They will learn what black holes really are how gravitational waves are generated and detected and the modern view of the expansion of the universe A brief introduction to quantum field theory in curved spacetime is also included A student familiar with this book will be ready to tackle research level problems in gravitational physics **Relativity** Hans

Stephani, 2004-02-12 Thoroughly revised and updated this textbook provides a pedagogical introduction to relativity It is self contained but the reader is expected to have a basic knowledge of theoretical mechanics and electrodynamics It covers the most important features of both special and general relativity as well as touching on more difficult topics such as the field of charged pole dipole particles the Petrov classification groups of motions gravitational lenses exact solutions and the structure of infinity The necessary mathematical tools tensor calculus Riemannian geometry are provided most of the derivations are given in full and exercises are included where appropriate Written as a textbook for undergraduate and introductory graduate courses it will also be of use to researchers working in the field The bibliography gives the original papers and directs the reader to useful monographs and review papers *Introduction To General Relativity And Cosmology* Christian G Boehmer, 2016-10-06 Introduction to General Relativity and Cosmology gives undergraduate students an overview of the fundamental ideas behind the geometric theory of gravitation and spacetime Through pointers on how to modify and generalise Einstein's theory to enhance understanding it provides a link between standard textbook content and current research in the field Chapters present complicated material practically and concisely initially dealing with the

mathematical foundations of the theory of relativity in particular differential geometry This is followed by a discussion of the Einstein field equations and their various properties Also given is analysis of the important Schwarzschild solutions followed by application of general relativity to cosmology Questions with fully worked answers are provided at the end of each chapter to aid comprehension and guide learning This pared down textbook is specifically designed for new students looking for a workable simple presentation of some of the key theories in modern physics and mathematics

*Introduction to Einstein's Theory of Relativity* Øyvind Grøn, 2020-05-27 The revised and updated 2nd edition of this established textbook provides a self contained introduction to the general theory of relativity describing not only the physical principles and applications of the theory but also the mathematics needed in particular the calculus of differential forms Updated throughout the book contains more detailed explanations and extended discussions of several conceptual points and strengthened mathematical deductions where required It includes examples of work conducted in the ten years since the first edition of the book was published for example the pedagogically helpful concept of a river of space and a more detailed discussion of how far the principle of relativity is contained in the general theory of relativity Also presented is a discussion of the concept of the gravitational field in Einstein's theory and some new material concerning the twin paradox in the theory of relativity Finally the book contains a new section about gravitational waves exploring the dramatic progress in this field following the LIGO observations Based on a long established masters course the book serves advanced undergraduate and graduate level students and also provides a useful reference for researchers

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

Mathematical Introduction To General Relativity, A (Second Edition) Amol Sasane, 2024-12-20 The book aims to give a mathematical presentation of the theory of general relativity that is spacetime geometry based gravitation theory to advanced undergraduate mathematics students Mathematicians will find spacetime physics presented in the definition theorem proof format familiar to them The given precise mathematical definitions of physical notions help avoiding pitfalls especially in the context of spacetime physics describing phenomena that are counter intuitive to everyday experiences In the first part the differential geometry of smooth manifolds which is needed

to present the spacetime based gravitation theory is developed from scratch Here many of the illustrating examples are the Lorentzian manifolds which later serve as spacetime models This has the twofold purpose of making the physics forthcoming in the second part relatable and the mathematics learnt in the first part less dry The book uses the modern coordinate free language of semi Riemannian geometry Nevertheless to familiarise the reader with the useful tool of coordinates for computations and to bridge the gap with the physics literature the link to coordinates is made through exercises and via frequent remarks on how the two languages are related In the second part the focus is on physics covering essential material of the 20th century spacetime based view of gravity energy momentum tensor field of matter field equation spacetime examples Newtonian approximation geodesics tests of the theory black holes and cosmological models of the universe Prior knowledge of differential geometry or physics is not assumed The book is intended for self study and the solutions to all the 283 exercises are included The second edition corrects errors from the first edition and includes 60 new exercises 10 new remarks 29 new figures some of which cover auxiliary topics that were omitted in the first edition

**Theory of Gravitational Interactions** Maurizio Gasperini, 2016-11-25 This is the second edition of a well received book that is a modern self contained introduction to the theory of gravitational interactions The new edition includes more details on gravitational waves of cosmological origin the so called brane world scenario and gravitational time delay effects The first part of the book follows the traditional presentation of general relativity as a geometric theory of the macroscopic gravitational field while the second more advanced part discusses the deep analogies and differences between a geometric theory of gravity and the gauge theories of the other fundamental interactions This fills a gap within the traditional approach to general relativity which usually leaves students puzzled about the role of gravity The required notions of differential geometry are reduced to the minimum allowing room for aspects of gravitational physics of current phenomenological and theoretical interest such as the properties of gravitational waves the gravitational interactions of spinors and the supersymmetric and higher dimensional generalization of the Einstein equations This textbook is primarily intended for students pursuing a theoretical or astroparticle curriculum but is also relevant for PhD students and young researchers

*General Relativity* Norbert Straumann, 2012-10-09 This book provides a completely revised and expanded version of the previous classic edition *General Relativity and Relativistic Astrophysics* In Part I the foundations of general relativity are thoroughly developed while Part II is devoted to tests of general relativity and many of its applications Binary pulsars our best laboratories for general relativity are studied in considerable detail An introduction to gravitational lensing theory is included as well so as to make the current literature on the subject accessible to readers Considerable attention is devoted to the study of compact objects especially to black holes This includes a detailed derivation of the Kerr solution Israel's proof of his uniqueness theorem and a derivation of the basic laws of black hole physics Part II ends with Witten's proof of the positive energy theorem which is presented in detail together with the required tools on spin structures and spinor analysis

In Part III all of the differential geometric tools required are developed in detail A great deal of effort went into refining and improving the text for the new edition New material has been added including a chapter on cosmology The book addresses undergraduate and graduate students in physics astrophysics and mathematics It utilizes a very well structured approach which should help it continue to be a standard work for a modern treatment of gravitational physics The clear presentation of differential geometry also makes it useful for work on string theory and other fields of physics classical as well as quantum

**Gravitation and Cosmology** Steven Weinberg, 2013-08-12 A leading physicist delves into relativity and experimental applications Gravitation and Cosmology Principles and Applications of the General Theory of Relativity offers a Nobel laureate s perspectives on the wealth of data technological developments have brought to expand upon Einstein s theory Unique in basing relativity on the Principle of Equivalence of Gravitation and Inertia over Riemannian geometry this book explores relativity experiments and observational cosmology to provide a sound foundation upon which analyses can be made Covering special and general relativity tensor analysis gravitation curvature and more this book provides an engaging insightful introduction to the forces that shape the universe *An Introduction to Gravity* Joel Franklin, 2024-04-11 Einstein s theory of gravity can be difficult to introduce at the undergraduate level or for self study One way to ease its introduction is to construct intermediate theories between the previous successful theory of gravity Newton s and our modern theory Einstein s general relativity This textbook bridges the gap by merging Newtonian gravity and special relativity by analogy with electricity and magnetism a process that both builds intuition about general relativity and indicates why it has the form that it does This approach is used to motivate the structure of the full theory as a nonlinear field equation governing a second rank tensor with geometric interpretation and to understand its predictions by comparing it with the often qualitatively correct predictions of intermediate theories between Newton s and Einstein s Suitable for a one semester course at junior or senior level this student friendly approach builds on familiar undergraduate physics to illuminate the structure of general relativity *Introduction to General Relativity, Black Holes, and Cosmology* Yvonne Choquet-Bruhat, 2014-11-21 General Relativity is a beautiful geometric theory simple in its mathematical formulation but leading to numerous consequences with striking physical interpretations gravitational waves black holes cosmological models and so on This introductory textbook is written for mathematics students interested in physics and physics students interested in exact mathematical formulations or for anyone with a scientific mind who is curious to know more of the world we live in recent remarkable experimental and observational results which confirm the theory are clearly described and no specialised physics knowledge is required The mathematical level of Part A is aimed at undergraduate students and could be the basis for a course on General Relativity Part B is more advanced but still does not require sophisticated mathematics Based on Yvonne Choquet Bruhat s more advanced text General Relativity and the Einstein Equations the aim of this book is to give with precision but as simply as possible the foundations and main consequences of General Relativity The first five chapters from General Relativity and the

Einstein Equations have been updated with new sections and chapters on black holes gravitational waves singularities and the Reissner Nordström and interior Schwarzschild solutions The rigour behind this book will provide readers with the perfect preparation to follow the great mathematical progress in the actual development as well as the ability to model the latest astrophysical and cosmological observations The book presents basic General Relativity and provides a basis for understanding and using the fundamental theory

**The Curious History of Relativity** Jean Eisenstaedt, 2006 Black holes may obliterate most things that come near them but they saved the theory of general relativity Einstein's theory was quickly accepted as the true theory of gravity after its publication in 1915 but soon took a back seat in physics to quantum mechanics and languished for decades on the blackboards of mathematicians Not until the existence of black holes by Stephen Hawking and Roger Penrose in the 1960s after Einstein's death was the theory revived Almost one hundred years after general relativity replaced Newton's theory of gravitation The Curious History of Relativity tells the story of both events surrounding general relativity and the techniques employed by Einstein and the relativists to construct develop and understand his almost impenetrable theory Jean Eisenstaedt one of the world's leading experts on the subject also discusses the theory's place in the evolution of twentieth century physics He describes the main stages in the development of general relativity its beginnings its strange crossing of the desert during Einstein's lifetime while under heated criticism and its new life from the 1960s on when it became vital to the understanding of black holes and the observation of exotic objects and eventually to the discovery of the accelerating universe We witness Einstein's construction of his theory as well as the work of his fascinated discouraged and enthusiastic colleagues physicists mathematicians and astronomers Written with flair The Curious History of Relativity poses and answers the difficult questions raised by Einstein's magnificent intellectual feat

*General Relativity and Gravitation* Abhay Ashtekar, Beverly K. Berger, James Isenberg, Malcolm MacCallum, 2015-06 Explore spectacular advances in contemporary physics with this unique celebration of the centennial of Einstein's discovery of general relativity

**Space-time** Jonathan Allday, 2019-05-28 Read an exclusive interview with Dr Allday where he discusses the importance of the monumental first image of the black hole here This book suitable for interested post 16 school pupils or undergraduates looking for a supplement to their course text develops our modern view of space time and its implications in the theories of gravity and cosmology While aspects of this topic are inevitably abstract the book seeks to ground thinking in observational and experimental evidence where possible In addition some of Einstein's philosophical thoughts are explored and contrasted with our modern views Written in an accessible yet rigorous style Jonathan Allday a highly accomplished writer brings his trademark clarity and engagement to these fascinating subjects which underpin so much of modern physics Features Restricted use of advanced mathematics making the book suitable for post 16 students and undergraduates Contains discussions of key modern developments in quantum gravity and the latest developments in the field including results from the Laser Interferometer Gravitational Wave Observatory LIGO Accompanied by appendices on the CRC Press website



featuring detailed mathematical arguments for key derivations

## Reviewing **General Relativity An Introduction To The Theory Of Gravitational Field**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**General Relativity An Introduction To The Theory Of Gravitational Field**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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