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THE SPECIAL AND THE GENERAL THEORY

ALBERT EINSTEIN

# Basic Relativity

**Robert Resnick, David Halliday**



## **Basic Relativity:**

*Basic Relativity* Richard A. Mould, 2001-11-01 This comprehensive textbook develops in a logical and coherent way both the formalism and the physical ideas of special and general relativity Part one focuses on the special theory and begins with the study of relativistic kinematics from three points of view Part two begins with a chapter introducing differential geometry Subsequent chapters cover rotation the electromagnetic field and material media A second chapter on differential geometry provides the background for Einstein's gravitational field equation and Schwarzschild's solution The book is aimed at advanced undergraduates and beginning graduate students in physics or astrophysics

*Basic Relativity* Péter Hráskó, 2011-03-22 This Brief presents a new way of introducing relativity theory in which perplexing relativistic effects such as time dilation and Lorentz contraction are explained prior to the discussion of Lorentz transformation The notion of relativistic mass is shown to contradict the spirit of relativity theory and the true significance of the mass energy relation is contrasted with the popular view of it The author discusses the twin paradox from the point of view of both siblings Last but not least the fundamentals of general relativity are described including the recent Gravity Probe B experiment

*Essential Relativity* W. Rindler, 2012-12-06 In retrospect the first edition of this book now seems like a mere sketch for a book The present version is if not the final product at least a closer approximation to it The table of contents may show little change But that is simply because the original organization of the material has been found satisfactory Also the basic purpose of the book remains the same and that is to make relativity come alive conceptually I have always felt much sympathy with Richard Courant's maxim as reported and exemplified by Pascual Jordan that ideally proofs should be reached by comprehension rather than computation Where computations are necessary I have tried to make them as transparent as possible so as not to hinder the progress of comprehension Among the more obvious changes this edition contains a new section on Kruskal space another on the plane gravitational wave and a third on linearized general relativity it also contains many new exercises and two appendices one listing the curvature components for the diagonal metric in a little more generality than the old Dingle formulas and one synthesizing Maxwell's theory in tensor form But the most significant changes and additions have occurred throughout the text Many sections have been completely rewritten many arguments tightened many asides added and of course recent developments taken into account

*Basic Concepts in Relativity and Early Quantum Theory* Robert Resnick, David Halliday, 1985 A new edition of this introduction to modern physics provides new material on the most recent experimental tests in relativity and a fuller treatment of the space time interval and the Kennedy Thorndike experiment It treats the quantum theory of specific heats with material on synchrotron radiation a modernized treatment of the electron microscope and a preview of quantum mechanics Features include additional historical philosophical and biographical material reflecting important published research of the past decade along with a significant expansion nearly double in the number of problems thought questions and worked out examples The book also includes references summary tables and

illustrations

**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

**Lectures on General Relativity** A. Papapetrou, 1974-11-30 This book is an elaboration of lecture notes for the graduate course on General Relativity given by the author at Boston University in the spring semester of 1972 It is an introduction to the subject only as the time available for the course was limited The author of an introduction to General Relativity is faced from the beginning with the difficult task of choosing which material to include A general criterion assisting in this choice is provided by the didactic character of the book Those chapters have to be included in priority which will be most useful to the reader in enabling him to understand the methods used in General Relativity the results obtained so far and possibly the problems still to be solved This criterion is not sufficient to ensure a unique choice General Relativity has developed to such a degree that it is impossible to include in an introductory textbook of a reasonable length even a very condensed treatment of all important problems which have been discussed until now and the author is obliged to decide in a more or less subjective manner which of the more recent developments to omit The following lines indicate by means of some examples the kind of choice made in this book

*Nuclear Science Abstracts*, 1976

*Introduction to General Relativity* John Dirk Walecka, 2007

A working knowledge of Einstein's theory of general relativity is an essential tool for every physicist today This self contained book is an introductory text on the subject aimed at first year graduate students or advanced undergraduates in physics that assumes only a basic understanding of classical Lagrangian mechanics 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 After reviewing special relativity the basic principles of general relativity are presented and the most important applications are discussed The final special topics section guides the reader through a few important areas of current research This book 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

General Physics for Colleges David Locke Webster, Hermon Waldo Farwell, Elmer Reginald Drew, 1926      **Very Special Relativity** Sander Bais, 2007 Einstein's Special Theory of Relativity first published in 1905 radically changed our understanding of the world. Familiar notions of space and time and energy were turned on their head and our struggle with Einstein's counterintuitive explanation of these concepts was under way. The task is no easier today than it was a hundred years ago but in this book Sander Bais has found an original and uniquely effective way to convey the fundamental ideas of Einstein's Special Theory. Bais's previous book *The Equations* was widely read and roundly praised for its clear and commonsense explanation of the math in physics. *Very Special Relativity* brings the same accessible approach to Einstein's theory. Using a series of easy-to-follow diagrams and employing only elementary high school geometry, Bais conducts readers through the quirks and quandaries of such fundamental concepts as simultaneity, causality, and time dilation. The diagrams also illustrate the difference between the Newtonian view in which time was universal and the Einsteinian in which the speed of light is universal. Following Bais's straightforward sequence of simple commonsense arguments, readers can tinker with the theory and its great paradoxes and finally arrive at a truly deep understanding of Einstein's interpretation of space and time. An intellectual journey into the heart of the Special Theory, the book offers an intimate look at the terms and ideas that define our reality.

**General Relativity** Norbert Straumann, 2013-11-11 The foundations are thoroughly developed together with the required mathematical background from differential geometry developed in Part III. The author also discusses the tests of general relativity in detail, including binary pulsars, with much space devoted to the study of compact objects, especially to neutron stars and to the basic laws of black hole physics. This well-structured text and reference enables readers to easily navigate through the various sections as best matches their backgrounds and perspectives, whether mathematical, physical, or astronomical. Very applications-oriented, the text includes very recent results such as the supermassive black hole in our galaxy and the first double pulsar system.

*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.

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

**A First Course in General Relativity** Bernard F. Schutz, 1985-01-31 This textbook develops general relativity and its associated mathematics from a minimum of prerequisites leading to a physical understanding of the theory in some depth

**Relativity Theory** Amos Harpaz, 1993-10-15 Relativity Theory is a scientific explanation of the central ideas of general relativity for readers with modest backgrounds in mathematics and physics The mathematical discussion is kept informal Topics include the metric tensor space dependent metric four dimensional space principles of GTR Einstein s equations Schwarzschild s solution cosmological solutions and relativistic astrophysics phenomena

**Bulletin of the American Mathematical Society** American Mathematical Society, 1930

Special & General Relativity Preetinder Rahil, 2019-06-15 Relativity is a triumph of the power of human thought and Einstein s greatest gift to mankind It is a fascinating but difficult theory to understand Mathematics is intimidating for a beginner The popular books do not go into details of the subject and textbooks are just too hard for self study This book aims to bridge the gap between the two The emphasis of this book is to explain the meaning and intuition behind concepts and mathematics There is extensive use of analogies from daily life to develop visualization and intuition This book is well suited for a beginner who has limited physics and mathematics background The biggest barrier in learning relativity is the notation which is a language onto itself If the meaning behind notation is not clear it s easy to get lost in the maze of indices used in relativity This book tries to address the reason and meaning behind relativistic notation

*Scandinavian Scientific Review* Martin Luther Reymert, 1922

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**Science Abstracts** , 1920

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