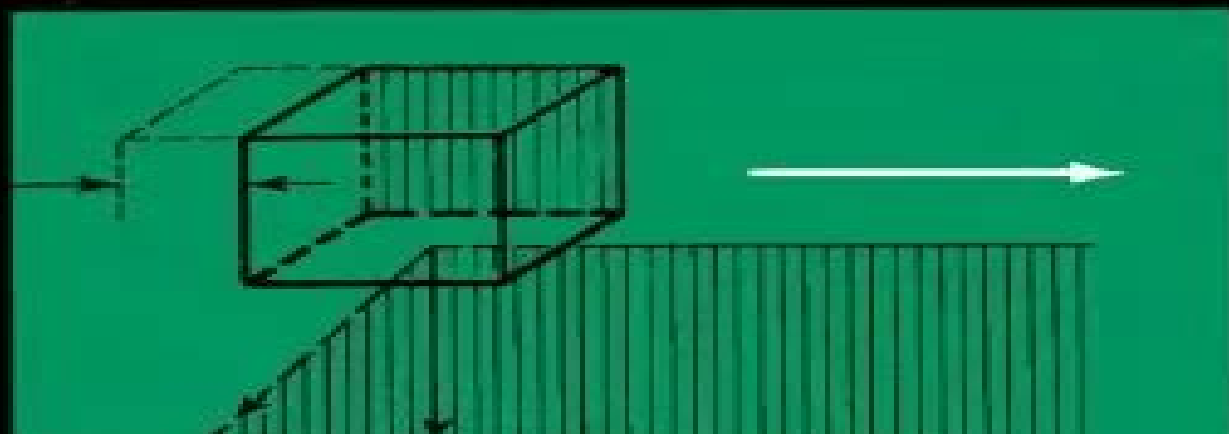


COMMISSION ON COLLEGE PHYSICS

# An Introduction to the Special Theory of Relativity

ROBERT KATZ



# Relativity An Introduction To The Special Theory

**James H. Smith**



## **Relativity An Introduction To The Special Theory:**

**Relativity : An Introduction To The Special Theory** Asghar Qadir, 1989-11-01 The most important feature in this book is the simple presentation with details of calculations It is very easy to follow Fairly sophisticated calculations are developed very rapidly The presentation is logical and the detailed coverage makes this book very readable and useful The contents develop Relativity as a modern theory of motion starting by placing it in historical perspective and proceeding to show its logical necessity The development of the Lorentz transformation is given using only one assumption rather than two Right away in Chapter 3 geometry as required in Special Relativity for extension to General Relativity is introduced This enables the use of the four vector formalism of Minkowski By the end of Chapter 4 the general Lorentz transformations for three dimensional motion and their relation to four dimensional boosts have already been explained In Chapter 5 applications of relevance in Physics are provided After a brief introduction to elementary electromagnetic theory it is reformulated as a theory in four dimensions using tensors in Chapter 6 Finally in Chapter 7 the theory is extended to deal with accelerated motion as corrections to Special Relativity

**Introduction to Special Relativity** Robert Resnick, 1991-01-16 This book gives an excellent introduction to the theory of special relativity Professor Resnick presents a fundamental and unified development of the subject with unusually clear discussions of the aspects that usually trouble beginners He includes for example a section on the common sense of relativity His presentation is lively and interspersed with historical philosophical and special topics such as the twin paradox that will arouse and hold the reader's interest You'll find many unique features that help you grasp the material such as worked out examples summary tables thought questions and a wealth of excellent problems The emphasis throughout the book is physical The experimental background experimental confirmation of predictions and the physical interpretation of principles are stressed The book treats relativistic kinematics relativistic dynamics and relativity and electromagnetism and contains special appendices on the geometric representation of space time and on general relativity Its organization permits an instructor to vary the length and depth of his treatment and to use the book either with or following classical physics These features make it an ideal companion for introductory courses

**Introduction to Special Relativity** James H. Smith, 2016-03-22 By the year 1900 most of physics seemed to be encompassed in the two great theories of Newtonian mechanics and Maxwell's theory of electromagnetism Unfortunately there were inconsistencies between the two theories that seemed irreconcilable Although many physicists struggled with the problem it took the genius of Einstein to see that the inconsistencies were concerned not merely with mechanics and electromagnetism but with our most elementary ideas of space and time In the special theory of relativity Einstein resolved these difficulties and profoundly altered our conception of the physical universe Readers looking for a concise well written explanation of one of the most important theories in modern physics need search no further than this lucid undergraduate level text Replete with examples that make it especially suitable for self study the book assumes only a knowledge of algebra

Topics include classical relativity and the relativity postulate time dilation the twin paradox momentum and energy particles of zero mass electric and magnetic fields and forces and more

**The Special Theory of Relativity** Costas Christodoulides, 2016-02-09 This book offers a comprehensive university level introduction to Einstein's Special Theory of Relativity In addition to the purely theoretical aspect emphasis is also given to its historical development as well as to the experiments that preceded the theory and those performed in order to test its validity The main body of the book consists of chapters on Relativistic Kinematics and Dynamics and their applications Optics and Electromagnetism These could be covered in a one semester course A more advanced course might include the subjects examined in the other chapters of the book and its appendices As a textbook it has some unique characteristics It provides detailed proofs of the theorems offers abundant figures and discusses numerous examples It also includes a number of problems for readers to solve the complete solutions of which are given at the end of the book It is primarily intended for use by university students of physics mathematics and engineering However as the mathematics needed is of an upper intermediate level the book will also appeal to a more general readership

**Spacetime Physics** Edwin F. Taylor, John Archibald Wheeler, 1992-03-15 This thoroughly up to date highly accessible overview covers microgravity collider accelerators satellite probes neutron detectors radioastronomy and pulsars

Einstein's Space-Time Rafael Ferraro, 2007-09-23 This excellent textbook offers a unique take on relativity theory setting it in its historical context Ideal for those interested in relativity and the history of physics the book contains a complete account of special relativity that begins with the historical analysis of the reasons that led to a change in our view of space and time Its aim is to foster a deep understanding of relativistic spacetime and its consequences for Dynamics

*General Relativity* Hans Stephani, 1990-06-29 This book is an excellent introduction to the subjects of gravitation and space time structure It presumes a good background in special relativity electrodynamics and classical mechanics The book discusses the foundations of Riemannian geometry the derivation of the Einstein field equations linearised theory far fields and gravitational waves the invariant characterization of exact solutions gravitational collapse cosmology and a final chapter deals with alternative gravitation theories and the problem of quantum gravity This revised and correct edition brings the experimental evidence up to date In addition the sections on quantum gravity have been rewritten and enlarged and now form a coherent introduction to this subject

Introduction to the Theory of Relativity Peter Gabriel Bergmann, 2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public To ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface

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**The Geometry of Spacetime** James J. Callahan, 2013-03-09 In 1905 Albert Einstein offered a revolutionary theory special relativity to explain some of the most troubling problems in current physics concerning electromagnetism and motion Soon afterwards Hermann Minkowski recast special relativity essentially as a new geometric structure for spacetime These ideas are the subject of the first part of the book The second part develops the main implications of Einstein's general relativity as a theory of gravity rooted in the differential geometry of surfaces The author explores the way an individual observer views the world and how a pair of observers collaborates to gain objective knowledge of the world He has tried to encompass both the general and special theory by using the geometry of spacetime as the unifying theme of the book To read it one needs only a first course in linear algebra and multivariable calculus and familiarity with the physical applications of calculus

**Gravity** James B. Hartle, 2021-06-24 Einstein's theory of general relativity is a cornerstone of modern physics It also touches upon a wealth of topics that students find fascinating black holes warped spacetime gravitational waves and cosmology Now reissued by Cambridge University Press this ground breaking text helped to bring general relativity into the undergraduate curriculum making it accessible to virtually all physics majors One of the pioneers of the physics first approach to the subject renowned relativist James B Hartle recognized that there is typically not enough time in a short introductory course for the traditional mathematics first approach In this text he provides a fluent and accessible physics first introduction to general relativity that begins with the essential physical applications and uses a minimum of new mathematics This market leading text is ideal for a one semester course for undergraduates with only introductory mechanics as a prerequisite

**Relativity** Hans Stephani, 2004 Thoroughly revised and updated this textbook provides an introduction to special and general relativity It covers the basics as well as touching on more difficult topics such as gravitational lenses Petrov classification exact solutions and the structure of infinity Exercises and an extensive bibliography are included to aid the reader

**The Geometry of Minkowski Spacetime** Gregory L. Naber, 2003-01-01 This mathematically rigorous treatment examines Zeeman's characterization of the causal automorphisms of Minkowski spacetime and the Penrose theorem concerning the apparent shape of a relativistically moving sphere Other topics include the construction of a geometric theory of the electromagnetic field an in depth introduction to the theory of spinors and a classification of electromagnetic fields in both tensor and spinor form Appendixes introduce a topology for Minkowski spacetime and discuss Dirac's famous Scissors Problem Appropriate for graduate level courses this text presumes only a knowledge of linear algebra and elementary point set topology 1992 edition 43 figures

**The Theory of Relativity** R. K. Pathria, 2003 Graduate level text elaborates on physical ideas underlying relativity examining special theory space time transformations four dimensional formulations mechanics optics electromagnetism and general theory space time continuum gravitation experiments and relativistic cosmology 1974 edition

**Elementary Approach to Special Relativity** Helmut

Günther,2020-05-16 This book presents an alternative representation of Einstein's Special Theory of Relativity which makes Special Relativity much more comprehensible. Moreover, one will come across a fundamental relationship between the Special Theory of Relativity and the mechanics of space lattice. In all previous formulations the Einsteinian special principle of relativity in one or the other form is used as the starting point for Special Relativity. In correspondence to this principle one takes it as granted a priori that all observers independent of their uniform motion to each other measure one and the same propagation velocity of a light signal. This book is thought of as a lecture for physicists, mathematicians and computer scientists and concentrates on the students of these fields. The book should reach a broad circle of interested readers from the fields of natural sciences and philosophy and provide an invigorating experience for engineers. **Relativity: A Very Short Introduction**

Russell Stannard,2008-07-24 Einstein's theory of relativity shattered the world of physics replacing Newtonian ideas of space and time with bizarre and counterintuitive conclusions: a world of slowing clocks and stretched space, black holes and curved space-time. This Very Short Introduction explores and explains the theory in an accessible and understandable way. **Einstein Gravity in a Nutshell**

A. 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.

**Introduction to Special Relativity** Robert Resnick,1968 **Differential Geometry and Relativity Theory** Richard L. Faber,2017-10-19 Differential Geometry and Relativity Theory. An Introduction approaches relativity as a geometric theory of space and time in which gravity is a manifestation of space-time curvature rather than a force. Uniting differential geometry

and both special and general relativity in a single source this easy to understand text opens the general theory of relativity to mathematics majors having a background only in multivariable calculus and linear algebra The book offers a broad overview of the physical foundations and mathematical details of relativity and presents concrete physical interpretations of numerous abstract concepts in Riemannian geometry The work is profusely illustrated with diagrams aiding in the understanding of proofs and explanations Appendices feature important material on vector analysis and hyperbolic functions Differential Geometry and Relativity Theory An Introduction serves as the ideal text for high level undergraduate courses in mathematics and physics and includes a solutions manual augmenting classroom study It is an invaluable reference for mathematicians interested in differential and Riemannian geometry or the special and general theories of relativity Introduction to Relativity William D. McGlinn, 2003 This book contains a tremendous amount of information for its size The discussions are clear and to the point Any teacher on this subject should seriously consider as a textbook The Physicist

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

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