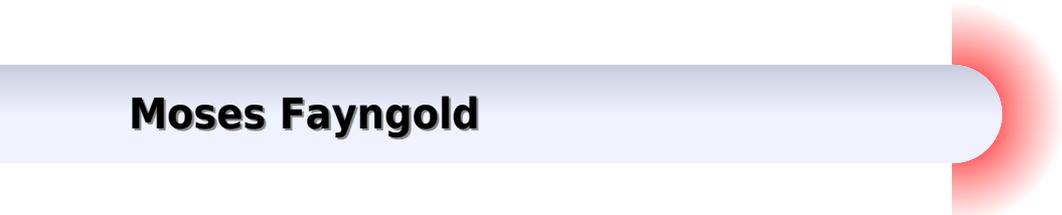


Special Relativity

Moses Fayngold



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Special Relativity Michael Tsamparlis, 2010-05-17 Writing a new book on the classic subject of Special Relativity on which numerous important physicists have contributed and many books have already been written can be like adding another epicycle to the Ptolemaic cosmology Furthermore it is our belief that if a book has no new elements but simply repeats what is written in the existing literature perhaps with a different style then this is not enough to justify its publication However after having spent a number of years both in class and research with relativity I have come to the conclusion that there exists a place for a new book Since it appears that somewhere along the way mathematics may have obscured and prevailed to the degree that we tend to teach relativity and I believe theoretical physics simply using heavier mathematics without the inspiration and the mastery of the classic physicists of the last century Moreover current trends encourage the application of techniques in producing quick results and not tedious conceptual approaches resulting in long lasting reasoning On the other hand physics cannot be done *à la carte* stripped from philosophy or to put it in a simple but dramatic context A building is not an accumulation of stones As a result of the above a major aim in the writing of this book has been the distinction between the mathematics of Minkowski space and the physics of relativity

A Student's Guide to Special Relativity Norman Gray, 2022-02-03 A compact yet informative exploration of Special Relativity and its core ideas also providing a preparatory route into General Relativity

Special Relativity Patricia M. Schwarz, John H. Schwarz, 2004-03-25 This book provides a thorough introduction to Einstein's special theory of relativity suitable for anyone with a minimum of one year's university physics with calculus It is divided into fundamental and advanced topics The first section starts by recalling the Pythagorean rule and its relation to the geometry of space then covers every aspect of special relativity including the history The second section covers the impact of relativity in quantum theory with an introduction to relativistic quantum mechanics and quantum

field theory It also goes over the group theory of the Lorentz group a simple introduction to supersymmetry and ends with cutting edge topics such as general relativity the standard model of elementary particles and its extensions superstring theory and a survey of important unsolved problems Each chapter comes with a set of exercises The book is accompanied by a CD ROM illustrating through interactive animation classic problems in relativity involving motion [Special Relativity for the Enthusiast](#) Thomas Strohm,2023-04-17 This textbook introduces special relativity with a focus on a profound understanding of the physics behind the theory The main part of the book is targeted to undergraduates for physics education for undergraduate students in natural sciences in general and even to interested laypersons To serve these target groups the book uses only basic mathematics and in contrast to many other introductions to special relativity the book is based on a pedagogical approach that relies on geometry and space time diagrams to make the surprising predictions of the theory particularly clear Special relativity is a geometric theory and space time diagrams are an efficient and easily understandable way to comprehend its implications The textbook however is also suitable for advanced students and enthusiasts that already learned the basics of the special theory of relativity and want to know more Special digression sections provide plenty of interesting material Carefully selected problems with solutions and in depth explanations for all key experiments help deepen the knowledge [Understanding the Space-time Concepts of Special Relativity](#) Arthur Evett,1982 [Special Relativity in General Frames](#) Éricourgoulhon,2013-08-20 Special relativity is the basis of many fields in modern physics particle physics quantum field theory high energy astrophysics etc This theory is presented here by adopting a four dimensional point of view from the start An outstanding feature of the book is that it doesn't restrict itself to inertial frames but considers accelerated and rotating observers It is thus possible to treat physical effects such as the Thomas precession or the Sagnac effect in a simple yet precise manner In the final chapters more advanced topics like tensorial fields in spacetime exterior calculus and relativistic hydrodynamics are addressed In the last brief chapter the author gives a preview of gravity and shows where it becomes incompatible with Minkowsky spacetime Well illustrated and enriched by many historical notes this book also presents many applications of special relativity ranging from particle physics accelerators particle collisions quark gluon plasma to astrophysics relativistic jets active galactic nuclei and including practical applications Sagnac gyrometers synchrotron radiation GPS In addition the book provides some mathematical developments such as the detailed analysis of the Lorentz group and its Lie algebra The book is suitable for students in the third year of a physics degree or on a masters course as well as researchers and any reader interested in relativity Thanks to the geometric approach adopted this book should also be beneficial for the study of general relativity A modern presentation of special relativity must put forward its essential structures before illustrating them using concrete applications to specific dynamical problems Such is the challenge so successfully met of the beautiful book by Eric Gourgoulhon excerpt from the Foreword by Thibault Damour [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.

Cosmological Special Relativity: Structure Of Space, Time And Velocity Moshe Carmeli, 1997-09-15 This book deals with special relativity theory and its application to cosmology. It presents Einstein's theory of space and time in detail and describes the large scale structure of space time and velocity as a new cosmological special relativity. A cosmological Lorentz like transformation which relates events at different cosmic times is derived and applied. A new law of addition of cosmic times is obtained and the inflation of the space at the early universe is derived both from the cosmological transformation. The book will be of interest to cosmologists, astrophysicists, theoretical physicists, mathematical physicists, and mathematicians.

Special Relativity and How it Works Moses Fayngold, 2008-07-21 Based on his successful work *Special Relativity and Motions Faster than Light*, Moses Fayngold has written a thorough presentation of the special theory of relativity. The unique feature of the textbook is its two leveled structure helping students to master the material more effectively: the first level presents a qualitative discussion of a problem while the second one contains its rigorous treatment. Fayngold points out the connection between fundamental principles and known phenomena. In three new chapters on Relativity at Work, Electromagnetism, Optics, Quantum Mechanics, he not only shows what relativity is but also how it works. The scope of new material extends to include a chapter on Causality and on Applied Relativity including astrophysical and accelerator topics. Backed throughout by numerous examples and exercises.

Special Relativity Mohammad Saleem, Muhammad Rafique, 1992 Following an introduction to the basic theory of special relativity, this volume explores the influence of special relativity in the fields of mechanics and electromagnetism. The authors discuss the vital role of tensor formulation of electromagnetism in synthesizing various physical concepts.

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

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Special Relativity and Motions Faster than Light Moses Fayngold,2008-09-08 While the theory of special relativity is often associated with the idea of traveling faster than light this book shows that in all these cases subtle forces of nature conspire to prevent these motions being harnessed to send signals faster than the speed of light The author tackles these topics both conceptually with minimal or no mathematics and quantitatively making use of numerous illustrations to clarify the discussion The result is a joy to read for both scientists familiar with the subject and laypeople wishing to understand something of special relativity

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Woodhouse,2012-12-06 Special relativity is one of the high points of the undergraduate mathematical physics syllabus Nick Woodhouse writes for those approaching the subject with a background in mathematics he aims to build on their familiarity with the foundational material and the way of thinking taught in first year mathematics courses but not to assume an unreasonable degree of prior knowledge of traditional areas of physical applied mathematics particularly electromagnetic theory His book provides mathematics students with the tools they need to understand the physical basis of special relativity and leaves them with a confident mathematical understanding of Minkowski's picture of space time Special Relativity is loosely based on the tried and tested course at Oxford where extensive tutorials and problem classes support the lecture course This is reflected in the book in the large number of examples and exercises ranging from the rather simple through to the more involved and challenging The author has included material on acceleration and tensors and has written the book with an emphasis on space time diagrams Written with the second year undergraduate in mind the book will appeal to those studying the Special Relativity option in their Mathematics or Mathematics and Physics course However a graduate or lecturer wanting a rapid introduction to special relativity would benefit from the concise and precise nature of the book

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Special Relativity Thomas M. Helliwell, 2009-07-29 Written in an clear and informal style this text explores the most accessible of the 20th century revolutions in physics It allows readers to build up physical intuition for what is going on before presenting concise mathematical descriptions It contains many applications ten appendices and numerous illustrations examples and problems Special Relativity is a superb text for students to begin or continue a serious study of physics Describing the most accessible of the 20th century revolutions it also illustrates the fact that nature is stranger than one imagines The book evolved through years of teaching a highly successful course to thousands of first year students in science and engineering It is appropriate as part of an introductory physics course as a supplement to a modern physics course as a text for a special topics or advanced placement course or even as a supplement in an advanced undergraduate course Numerous illustrations examples and problems are presented throughout with the concise mathematical description postponed until after the reader has built up some physical intuition for what is going on The book contains many applications from particle decays colliding beam experiments and photon rockets to a brief introduction to relativistic gravitation including the Principle of Equivalence the effect of altitude on clocks and the Global Positioning System Ten appendices can be taken up as interest and time allow including the Cosmic Speed Limit The book is a serious introduction praised for its clarity accessibility and informal light hearted style A detailed Solutions Manual is available for adopting professors An online Instructor s Manual is available exclusively for adopting professors Translated into Japanese

Special Relativity Yury Deshko, 2022-02-18 This textbook introduces the special theory of relativity at a level which is accessible to undergraduate students and even high school students with a strong foundation in algebra The presentation emphasizes clean algebraic and geometrical methods visualized with plenty of illustrations resulting in a textbook that is modern and serious yet accessible Replete with many solved exercises and copious spacetime diagrams this book will help students develop relativistic intuition when encountering the subject for the first time The emphasis on geometric methods combined with the pedagogically appealing k calculus approach makes this book ideal for a self contained course on special relativity or as supplementary reading for modern physics courses It will also appeal to high schoolers with a strong math background who want to get ahead

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