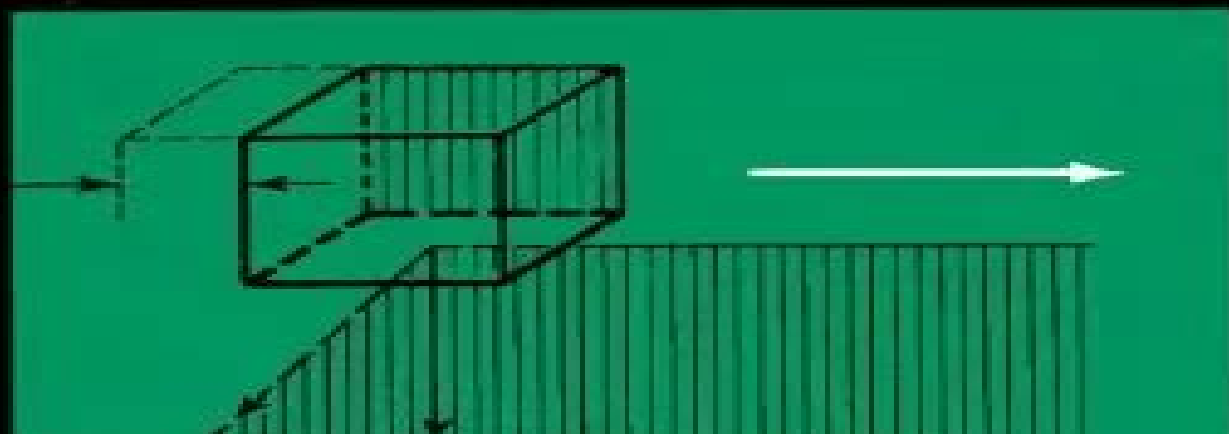


COMMISSION ON COLLEGE PHYSICS

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, 1968

Relativity Quinten Botsford, 2019

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 Special Relativity James H. Smith, 1995-01-01 Concise well written treatment of epochal theory of modern physics covers 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 Only high school math needed Replete with examples ideal for self study Introduction 70 illustrations

Special Relativity Michael Tsamparlis, 2019-11-26 This textbook develops Special Relativity in a systematic way and offers problems with detailed solutions to empower students to gain a real understanding of this core subject in physics This new edition has been thoroughly updated and has new sections on relativistic fluids relativistic kinematics and on four acceleration The problems and solution section has been significantly expanded and short history sections have been included throughout the book The approach is structural in the sense that it develops Special Relativity in Minkowski space following the parallel steps as the development of Newtonian Physics in Euclidian space A second characteristic of the book is that it discusses the mathematics of the theory independently of the

physical principles so that the reader will appreciate their role in the development of the physical theory The book is intended to be used both as a textbook for an advanced undergraduate teaching course in Special Relativity but also as a reference book for the future *An Introduction to the Special Theory of Relativity* William A. Shurcliff,1964 SPECIAL THEORY OF RELATIVITY Dr. Anil Kumar,Dr. Anjani Kumar Singh,Dr. Sindhu Singh,2021-06-28 **Special Theory of Relativity** C. W. Kilmister,2016-10-27 Special Theory of Relativity provides a discussion of the special theory of relativity Special relativity is not like other scientific theories a statement about the matter that forms the physical world but has the form of a condition that the explicit physical theories must satisfy It is thus a form of description playing to some extent the role of the grammar of physics prescribing which combinations of theoretical statements are admissible as descriptions of the physical world Thus to describe it one needs also to describe those specific theories and to say how much they are limited by it The book is organized into two parts The first part traces the historical development of the special theory of relativity including Einstein s contribution the elementary consequences of the Lorentz transformation and applications in quantum theory The second part contains extracts from various publications covering topics such as relative motion of the earth and the luminiferous and dynamics of the electron **The Theory of Special Relativity** David Brückner,2012-12-21 Essay from the year 2012 in the subject Physics Theoretical Physics grade 1 0 language English abstract The essay presents an intuitive approach to the basics of special relativity leading to a mathematical understanding of Lorentz transformations relativistic dynamics and mass energy equivalence Until the end of the nineteenth century the simple Galilean principle of relativity was used to relate physical observations in one frame of reference to another moving relative to it When the phenomena of electromagnetism and light were unified in Maxwell s equations this principle was first called into question as it stood in conflict with the idea of absolute time and motion The most famous experiment that attempted to determine the absolute motion of the earth the Michelson Morley experiment will be discussed here Subsequently the ideas and postulates contained in Einstein s first paper on relativity will be introduced and hence the kinematic transformations based on the principles will be derived and their implications on the relativity of space and time as well as on Newtonian mechanics will be stated

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