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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.

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Introduction to Special Relativity - Wiley

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Special relativity is an indispensable tool of modern physics, and its predictions have been experimentally tested time and time again without any discrepancies turning up. Special relativity reduces to Newtonian mechanics in the limit of small speeds.

Special Relativity -- from Eric Weisstein's World of Physics

The theory of special relativity is perhaps the most successful propaganda campaign of our time, relying on all the promotional tactics effective to advertising. Most common are the strawman arguments against classical mechanics, red herrings to deflect paradox challenges, dubious concepts to conceal these absurd paradoxes, and altered parameter definitions.

Introduction to Special Relativity: Resnick, Robert ...

Dynamics and Relativity | Wiley A new title in the Manchester Physics Series, this introductory text emphasises physical principles behind classical mechanics and relativity. It assumes little in the way of prior knowledge, introducing relevant mathematics and carefully developing it within a physics context.

Dynamics and Relativity | Wiley

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Special Relativity Wiley - me-mechanicalengineering.com

In physics, the special theory of relativity, or special relativity for short, is a scientific theory regarding the relationship between space and time.In Albert Einstein's original treatment, the theory is based on two postulates: The laws of physics are invariant (that is, identical) in all inertial frames of reference (that is, frames of reference with no acceleration).

Special relativity - Wikipedia

In his famous paper on special relativity in 1905, Albert Einstein deduced that when two clocks were brought together and synchronized, and then one was moved away and brought back, the clock which had undergone the traveling would be found to be lagging behind the clock which had stayed put.

Twin paradox - Wikipedia

The Special Theory of Relativity 25. 2.1 Classical Relativity 26. 2.2 The Michelson–Morley Experiment 29. 2.3 Einstein's Postulates 31. 2.4 Consequences of Einstein's Postulates 32. 2.5 The Lorentz Transformation 41. 2.6 The Twin Paradox 46. 2.7 Relativistic Dynamics 48. 2.8 Conservation Laws in Relativistic Decays and Collisions 54

Modern Physics, 4th Edition | Wiley

To derive the equations of special relativity, one must start with two postulates: The laws of physics are invariant under transformations between inertial frames. In other words, the laws of physics will be the same whether you are testing them in a frame 'at rest', or a frame moving with a constant velocity relative to the 'rest' frame.

List of relativistic equations - Wikipedia

Alternative Title: special theory Special relativity, part of the wide-ranging physical theory of relativity formed by the German-born physicist Albert Einstein. It was conceived by Einstein in 1905. Along with quantum mechanics, relativity is central to modern physics.

special relativity | Definition & Equation | Britannica

In so doing, it fills the need for a textbook that teaches modern dynamical astronomy with a strong emphasis on the relativistic aspects of the subject produced by the curved geometry of four-dimensional spacetime. The first three chapters review the fundamental principles of celestial mechanics and of special and general relativity.

Relativistic Celestial Mechanics of the Solar System | Wiley

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In physics, relativistic mechanics refers to mechanics compatible with special relativity (SR) and general relativity (GR). It provides a non- quantum mechanical description of a system of particles, or of a fluid, in cases where the velocities of moving objects are comparable to the speed of light c.

Relativistic mechanics - Wikipedia

Relativity Made Relatively Easy, Andrew M. Steane, Oct 4, 2012. Science, 440 pages. Relativity Made Relatively Easy presents an extensive study of Special Relativity and a gentle (but exact) introduction to General Relativity for undergraduate students of. Analytical mechanics, Grant R. Fowles, 1962. Science, 278 pages.

INTRODUCTION TO SPECIAL RELATIVITY, 2007, Resnick ...

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.