

introduction to special relativity pdf

of special relativity, as first presented by Albert Einstein. [Einstein later extended this principle to accelerating reference frames (known as the principle of general relativity) which is beyond the scope of this text.] The conclusion that the speed of light is the same in all inertial reference frames means, of

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the Special Theory of Relativity which is accessible to any student who has had an introduction to general physics and some slight acquaintance with the calculus.

An Introduction to the Special Theory of Relativity

Title Wolfgang Rindler - Introduction to Special Relativity Author: indra Created Date: 11/26/2009 4:18:03 AM

Wolfgang Rindler - Introduction to Special Relativity

General relativity is a beautiful scheme for describing the gravitational field and the equations it obeys. Nowadays this theory is often used as a prototype for other, more intricate constructions to describe forces between elementary particles or other branches of fundamental physics. This is why in an introduction to general relativity it is of

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Chapter 1 Introduction 1.1 Syllabus • The principle of relativity; its importance and universal application. • Revision: Inertial frames and transformations between

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In physics, special relativity (SR, also known as the special theory of relativity or STR) is the generally accepted and experimentally well-confirmed physical theory regarding the relationship between space and time.

Special relativity - Wikipedia

special relativity. This is Einstein's famous strong equivalence principle and it makes This is Einstein's famous strong equivalence principle and it makes general relativity an extension of special relativity to a curved spacetime.

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The aim of these lecture notes is to provide a reasonably self-contained introduction to General Relativity, including a variety of applications of the theory, ranging from the solar system to gravitational waves, black holes and cosmology.

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