

Special Relativity

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Special Relativity

Special relativity revealed that the speed of light is a limit that can be approached but not reached by any material object. It is the origin of the most famous equation in science, $E = mc^2$, which expresses the fact that mass and energy are the same physical entity and can be changed into each other.

special relativity | Definition & Equation | Britannica

(April 9, 2012) In the first lecture of the series Leonard Susskind discusses the concepts that will be covered throughout the course. In 1905, while only twe...

Special Relativity | Lecture 1 - YouTube

Simple Relativity is a 2D short educational animation film. The film is an attempt to explain Albert Einstein's Special Theory of Relativity with a simpler v...

Simple Relativity - Understanding Einstein's Special ...

Index . HyperPhysics : R Nave: Go Back

HyperPhysics Concepts

Relativity, wide-ranging physical theories formed by the German-born physicist Albert Einstein. Special relativity is limited to objects that are moving with respect to inertial frames of reference. General relativity is concerned with gravity, one of the fundamental forces in the universe.

relativity | Definition, Equations, & Facts | Britannica

The theory Einstein described is now known as the "special theory of relativity." It is a "theory of relativity" because it is based on the relativity of inertial motion. The qualification "special" was not originally part of the theory.

Special Relativity Principles

Accelerations in special relativity (SR) follow, as in Newtonian Mechanics, by differentiation of velocity with respect to time. Because of the Lorentz transformation and time dilation, the concepts of time and distance become more complex, which also leads to more complex definitions of "acceleration". SR as the theory of flat Minkowski spacetime remains valid in the presence of accelerations ...

