

The Mathematical Theory Of Special And General Relativity

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The Mathematical Theory of Special and General Relativity ...

Special relativity. The classical laws of physics were formulated by Newton in the Principia in 1687. According to this theory the motion of a particle has to be described relative to an inertial frame in which the particle, not subjected to external forces, will move at a constant velocity in a straight line. Two inertial frames are related in that they move in a fixed direction at a constant speed with respect to each other.

Special relativity - MacTutor History of Mathematics

Special functions are particular mathematical functions that have more or less established names and notations due to their importance in mathematical analysis, functional analysis, geometry, physics, or other applications. The term is defined by consensus, and thus lacks a general formal definition, but the List of mathematical functions contains functions that are commonly accepted as special.

Special functions - Wikipedia

Department of Mathematical Sciences Universitetsparken 5 DK-2100 København Ø The department is located in the E-building in the building complex called the H.C. Ørsted Institute. The walking distance between CABINN Scandinavia Hotel and the department is approximately 30 minutes. The Department of Mathematics and surroundings 3

Special Functions and their Applications

Based on courses taught at the University of Dublin, Carnegie Mellon University, and mostly at Simon Fraser University, this book presents the special theory of relativity from a mathematical point of view. It begins with the axioms of the Minkowski vector space and the flat spacetime manifold. Then it discusses the kinematics of special relativity in terms of Lorentz tranformations, and treats the group structure of Lorentz transformations.

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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, it is based on two postulates : [1] [2]

Special relativity - Wikipedia

This book offers a presentation of the special theory of relativity that is mathematically rigorous and yet spells out in considerable detail the physical significance of the mathematics. It treats, in addition to the usual menu of topics one is accustomed to finding in introductions to special relativity, a wide variety of results of more contemporary origin.

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