
Introduction To Special Relativity

Robert Resnick

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Basically, special relativity can be stated as the invariance of any spacetime interval (that is the 4D distance between any two events) when viewed from any inertial reference frame. All equations and effects of special relativity can be derived from this rotational symmetry (the Poincaré group) of Minkowski spacetime.

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relativity to general relativity. In special relativity, the i has a considerable practical advantage: Lorentz transformations are orthogonal, and all inner products only come with + signs. No confusion over signs remain. The use of a $i + ++$ metric, or worse even, a $+ i ; j$ metric, inevitably leads to sign errors. *Introduction to Special Relativity - Robert Resnick ...*

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