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relativity to general relativity. In special relativity, the η 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 η_{++} metric, or worse even, a η_{ij} metric, inevitably leads to sign errors.

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"An Introduction to the Special Theory of Relativity" by ...

There is an old book by Max Born, called Einstein's Theory of Relativity which explains the Special Relativity in great detail without any advanced mathematics and a little bit of General Relativity. It is suitable for those who has not yet started to physics degree or will not, but would like to understand the theory in a deeper and mathematical manner.

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Introduction to Special Relativity Robert Resnick I used this book as an undergrad many years ago in honors first-year physics (along with Purcell's excellent E&M book from the Berkeley Physics Series), and have referred to it from time to time since.

An Introduction to the Special Theory of Relativity

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.

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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.

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Introduces the basic ideas and equations of Einstein's Special Theory of Relativity. Topics include: Lorentz transformations, length contraction and time dilation, four vectors, Lorentz invariants, relativistic energy and momentum, relativistic kinematics, Doppler shift, space-time diagrams, relativity paradoxes, and some concepts of General Relativity.

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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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