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Spacetime and Geometry

In physics, spacetime is any mathematical model which fuses the three dimensions of space and the one dimension of time into a single four-dimensional manifold. Spacetime diagrams can be used to visualize

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relativistic effects, such as why different observers perceive where and when events occur differently.. Until the 20th century, it was assumed that the 3-dimensional geometry of the universe ...

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Try the No-Nonsense Introduction to General Relativity, a 24-page condensation of the full-blown lecture notes (PDF). While you are here check out the Spacetime and Geometry page — including the annotated bibliography of technical and popular books, many available for purchase online.

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Lecture Notes on General Relativity - Sean Carroll

An individual point in spacetime is called an event. The path of a particle is a curve through spacetime, a parameterized one-dimensional set of events, called the worldline. Such a description applies equally to SR and Newtonian mechanics.

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