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Soon afterwards, Hermann Minkowski recast special relativity essentially as a new geometric structure for spacetime. These ideas are the subject of the first part of the book. The second part develops the main implications of Einstein's general relativity as a theory

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relativity is a complex theory, but  
imagining falling objects can help trace  
its contours. (Here, GPS satellites are  
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the geometry of the spacetime manifold in the General Theory of Relativity with particular reference to the occurrence of singularities in cosmological solutions and their relation with other global properties. Section 2 gives a brief outline of Riemannian geometry. In Section 3,

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the General Theory of Relativity is  
presented in the form of two

Singularities and the geometry of  
spacetime

curved space-time. The four  
dimensional space-time continuum  
itself is distorted in the vicinity of any

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mass, with the amount of distortion depending on the mass and the distance from the mass. Thus, relativity accounts for Newton's inverse square law of gravity through geometry and thereby does away with the need for any mysterious "action at a distance."

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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



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

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Every set of coordinates, or particular space-time event, in such a universe is described as a "here-now" or a world point. In every inertial reference frame, all physical laws remain unchanged. Einstein's general theory of relativity (1916) again makes use of a four-

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dimensional space-time, but  
incorporates gravitational effects.  
Gravity is no longer thought of as a  
force, as in the Newtonian system, but  
as a cause of a "warping" of space-  
time, an effect described explicitly by a  
...

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Newton's law of gravity assumes that the geometry of spacetime is flat while Einstein's General Relativity allows any geometry to apply to spacetime. In weak gravity conditions, the curvature of spacetime is so small that Newton's law of gravity works just fine.

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Curved Spacetime - Astronomy Notes  
In general relativity, gravity can be regarded as not a force but a consequence of a curved spacetime geometry where the source of curvature is the stress-energy tensor (representing matter, for instance). Thus, for example, the path of a planet

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orbiting around a star is the projection  
of a geodesic of the curved  
4-dimensional spacetime ...

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The fabric of space-time is a  
conceptual model combining the three



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dimensions of space with the fourth  
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structure of spacetime, connects us to here and there and now and then. It is a four plus seven-dimensional map of our rationally comprehended objective reality where the concept of extended matter is fully integrated with the concept of spacetime by eliminating the ...

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Gravity as geometry of the quantum  
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suggest, for instance, that the math  
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geometry) can be equivalent to the  
math of quantum physics in a space of

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one less dimension. Think of a  
hologram – a flat, two-dimensional  
surface that incorporates a three-  
dimensional image.

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A Minkowski spacetime has a

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geometry in a sense that is analogous to the geometry of an ordinary Euclidean space. They are both "metrical" geometries. That means that they are geometries that deal with distances. Euclidean geometry is the familiar case.

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