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special relativity
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ideas are the

subject of the first
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The second part
develops the main
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theory of gravity

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James J. Callahan In

1905, Albert

Einstein offered a

revolutionary

theory - special

relativity - to

explain some of

the most troubling

problems in current

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physics concerning
electromagnetism
and motion.

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rigorous treatment

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relativity is a complex theory, but imagining falling objects can help trace its contours. (Here, GPS satellites are shown around...

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of the geometry of
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reference to the
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global properties.
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Relativity is

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The four

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of a four-dimensional space-time continuum itself is distorted in the vicinity of any 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

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of gravity through
geometry and
thereby does away
with the need for
any mysterious
“action at a
distance.”

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space-time and
geometric
gravitation ...

In physics,
spacetime is any

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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

relativistic effects,

such as why

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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

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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

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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

General
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that the geometry
of spacetime is flat
while Einstein's

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General Relativity
allows any

geometry to apply
to spacetime. In

weak gravity
conditions, the
curvature of

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is so small that

Newton's law of

gravity works just

fine.

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In general

relativity, gravity

can be regarded as

not a force but a

consequence of a

curved spacetime

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the source of curvature is the stress-energy tensor (representing matter, for instance). Thus, for example, the path of a planet orbiting around a star is the projection of a geodesic of the curved

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4-dimensional
spacetime ...

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The fabric of space-
time is a

conceptual model
combining the

three dimensions
of space with the
fourth dimension of
time. According to

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the best of current
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where the concept
of extended matter
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Gravity as
geometry of the
quantum structure
of spacetime

Studies of anti de
Sitter space
suggest, for

instance, that the
math describing
gravity (that is,
spacetime

geometry) can be
equivalent to the

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math of quantum
physics in a space
of one less
dimension. Think of
a hologram — a
flat, two-
dimensional
surface that
incorporates a
three-dimensional
image.

A quantum origin
for spacetime -

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Magazine

A Minkowski

spacetime has a

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both "metrical"

geometries. That

means that they

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