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of relativity
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Albert Einstein,

in his 1905

paper (On the
electrodynamics
of moving

bodies)

formulated a
physical theory
that described
the relationship
between space

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and time. This theory which was built on the earlier work of Hendrik Lorentz is the special theory of relativity.

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alike. Some crucial results are derived more than once with different approaches: the Lorentz transformation in one spatial direction three times, the Doppler formula four times, the Lorentz

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Transformation
in two
directions
twice; also
twice the
unification of
electric and
magnetic forces,
the velocity
addition ...

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Relativity. In

1905, Albert

Einstein

published the

theory of

special

relativity,

which explains

how to interpret

motion between

different

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inertial frames
of reference –
that is, places
that are moving
at constant
speeds relative
to each other.

Einstein

explained that
when two objects
are moving at a
constant speed
as the relative
motion between

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the two objects,
instead of
appealing to the
ether as an
absolute frame
of reference
that defined
what was going
on.

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and effects of
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relativity can
be derived from
this rotational
symmetry (the
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relativity We
spend our lives
moving quite
slowly compared
to the speed of
light. This can
make some of the
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difficult to
believe. All of
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occur at...

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fills the first section of his "On the Electrodynamics of Moving Bodies." It is the relativity of simultaneity. According to it, inertial observers in relative motion disagree on the timing of events

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at different
places.

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relativity also

says that mass,

or the total

amount of stuff

in an object,

can change

depending on the

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speed of the
object. If you
started moving
very fast, you
would actually
have more ...

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s, force, and

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is a very short

introduction to

the subject of

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Relativity,

focusing on the

Equivalence

Principle. It

gives a feeling

of what General

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