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Solutions In physics,
spacetime is any
mathematical model which
fuses the three dimensions
of space and the one

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dimension of time into a single four-dimensional manifold. Spacetime diagrams can be used to visualize relativistic effects, such as why different observers perceive where and when events occur differently..

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Hobson, G. P. Efstathiou,
and A. N. Lasenby (Cambridge
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Problem sets - General
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his semester course on
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THE SPACETIME OF SPECIAL
RELATIVITY Subtracting these

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two equations eliminates the
 y and z (since they are
 equal to their primed
 counterparts), leaving us
 with: $c^2 t^2 - x^2 = c^2 t_0^2 - x_0^2$
 $c^2 t_0^2 - x_0^2 = c^2 (At + Bx)^2 - (x - vt)^2 = c^2$
 $(A^2 t^2 + B^2 x^2 + 2$

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$$A^2(x^2 + v^2 t^2) - A^2 c^2 t^2 + b^2 c^2 x^2 + 2ABc^2 xt - A^2 x^2 - A^2 v^2 t^2 - 2A^2 vxt$$
 We equate like coefficients: $c^2 = A^2$
 $c^2 - A^2 v^2 c^2 c^2 - v^2 = A^2$
 $\frac{1}{c^2} (1 - v^2) c^2 = A^2 \frac{1}{c^2} (1 - v^2)$
 $\frac{1}{c^2} = A^2 \equiv \gamma^{-1} = \frac{1}{b^2 c^2 - A^2}$

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few years since I graduated, but one of my regrets was never learning GR. I figured it was time to sit down with a textbook and work through it myself. I found "General Relativity: An Introduction for Physicists" and

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generally like it, but am
having trouble ...

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Sergei Winitzki Last modified: January 2007 Contents
... General Relativity: An Introduction for Physicists by M. P. Hobson, G. P. Efstathiou, and A. N. Lasenby (Cambridge University Press, 2006).

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the derivation of general
relativity from a
variational principle.
Written for advanced
undergraduate and graduate

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students, this approachable textbook contains over 300 exercises to illuminate and extend the discussion in the text. Michael Hobson specialised in theoretical physics as an undergraduate at the

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symmetry: Birkhoff's
theorem 151 5.5 Gravitational

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red-shift154 5.6 Geodesics
in Schwarzschild space-
time158

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Really Useful Numbers $c =$
2:99792458 108 m s⁻¹ (Exact

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speed of light.) $c^2 =$
8:9875517873681764 10¹⁶ m² s⁻²
(Exact!) $G = 6:67384 10^{-11}$
m³ kg⁻¹ s⁻² (Newton's G.) M
= 1:98855 10³⁰ kg (Mass of
the Sun.) $r = 6:955 10^8$ m
(Radius of the Sun.) $GM =$
1:32712440018 10²⁰ m³ s⁻²

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(Solar gravitational
parameter; more accurate
than either G or M
separately.) $2GM/c^2 =$
 2.9532500765×10^3 m (Solar
Schwarzschild ...

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Notes on General Relativity

RELATIVITY WORKBOOK In
general relativity, an exact
solution is a Lorentzian
manifold equipped with
tensor fields modeling
states of ordinary matter,
such as a fluid, or

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classical non-gravitational
fields such as the
electromagnetic field
Background and definition.

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Das vorliegende Buch
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von Hobson et al. führt in
gelungener, pädagogisch
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Allgemeine
Relativitätstheorie ein.

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The geodesic equation is: $d^2 x^\mu / ds^2 + \Gamma^\mu_{\alpha\beta} dx^\alpha dx^\beta = 0$

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$d^2 x^\mu / ds^2 + \Gamma^\mu_{\alpha\beta} dx^\alpha / ds dx^\beta / ds = 0,$
where s is a scalar parameter of

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motion (e.g. the proper time), and. $\Gamma_{\mu\alpha\beta}$.

General relativity -

Wikipedia

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: (December 30) Chapter 10
Problems 10.1, 10.2
10.3, 10.4, 10.5 (5 problems).
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13. Cosmological Models

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