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General Relativity Hobson Solutions 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 relativistic effects, such as why different observers

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and graduate 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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These solutions reflect assignments made by Professor Igor Klebanov at Princeton University during his semester course on General Relativity during the fall of 2006. The course began relatively slowly, and picked up pace toward the end. The homeworks reflect this.

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5.1 Newtonian limit 137 5.2 Einstein field equations 139 5.3 Schwarzschild solution 146 5.4 Time dependence and spherical symmetry: Birkhoff's theorem 151 5.5 Gravitational red-shift 154 5.6 Geodesics in Schwarzschild space-time 158

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Really Useful Numbers $c = 2.99792458 \times 10^8$ m s⁻¹ (Exact speed of light.) $c^2 = 8.9875517873681764 \times 10^{16}$ m² s⁻² (Exact!) $G = 6.67384 \times 10^{-11}$ m³ kg⁻¹ s⁻² (Newton's G.) $M = 1.98855 \times 10^{30}$ kg (Mass of the Sun.) $r = 6.955 \times 10^8$ m (Radius of the Sun.) $GM = 1.32712440018 \times 10^{20}$ m³ s⁻² (Solar gravitational parameter; more accurate than either G or M separately.) $2GM/c^2 = 2.9532500765 \times 10^3$ m (Solar Schwarzschild ...)

Oxford Physics Department Notes on General Relativity

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

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Das vorliegende Buch "General Relativity: An Introduction for Physicists" von Hobson et al. führt in gelungener, pädagogisch wertvoller Weise in die Allgemeine Relativitätstheorie ein. Bevor ich zu diesem Buch kam, habe ich die Rebhan und Scheck zur Allgemeinen Relativitätstheorie gelesen.

General Relativity: An Introduction for Physicists: Hobson ...

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The geodesic equation is:
$$d^2 x^\mu / ds^2 + \Gamma^\mu_{\alpha\beta} dx^\alpha / ds dx^\beta / ds = 0,$$
 where s is a scalar parameter of motion (e.g. the proper time), and $\Gamma^\mu_{\alpha\beta}$.

General relativity - Wikipedia

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