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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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Notes on \General Relativity" (Wald, 1984) Robert B. Scott,1;2 1Institute for Geophysics, Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas, USA 2Department of Physics, University of Brest, Brest, France To whom correspondence should be addressed; E-mail: rscott@ig.utexas.edu.

General Relativity (Wald, 1984) - univ-brest.fr
A sizeable collection of problems in all areas of GR, with fully worked solutions, making it all the more difficult for instructors to invent problems the students can't easily find the answers to. N. Straumann, General Relativity and Relativistic Astrophysics (Springer-Verlag, 1984) [***]. A fairly high-level book, which starts out with a good ...

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[Added 23.01.2014] There are, of course, many, many interesting problems concerning the initial data for Einstein's equations. Just a quick review: the strong ties to geometry of Einstein's equation in general relativity means that the system of equations is somehow simultaneously over- and underdetermined.

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A First Course in General Relativity Bernard F Schutz (2nd Edition, Cambridge University Press, 2009) Solutions to Selected Exercises (Version 1.0, November 2009) To the user of these solutions: This document contains solutions to many of the Exercises in the second edition of A First Course in General Relativity. The textbook offers an ex-

A First Course in General Relativity - aei.mpg.de

The two-body problem in general relativity is the determination of the motion and gravitational field of two bodies as described by the field equations of general relativity. Solving the Kepler problem is essential to calculate the bending of light by gravity and the motion of a planet orbiting its sun.

Two-body problem in general relativity - Wikipedia

General relativity (GR, also known as the general theory of relativity or GTR) is the geometric theory of gravitation published by Albert Einstein in 1915 and the current description of gravitation in modern physics.General relativity generalizes special relativity and supersedes Newton's law of universal gravitation, providing a unified description of gravity as a geometric property of space ...

General relativity - Wikipedia

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