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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

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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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General Relativity by Robert M. Wald | Physics Forums

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This is known as the Rindler metric. As the problem illustrates, it is just the at spacetime of special relativity; but, expressed in coordinates that introduce some features that will be very important in general relativity. EP #12 - Jumping Seagull A Newton-Galilean Problem - A seagull sits on the ground. The wind velocity is $\sim v$.

General Relativity Extra Problems and Solutions

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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.

mathematical physics - Open problems in General Relativity ...

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General Relativity, Wald - press.uchicago.edu

General relativity also predicts the existence of gravitational waves, which have since been observed directly by the physics collaboration LIGO. In addition, general relativity is the basis of current cosmological models of a consistently expanding universe.

General relativity - Wikipedia

December 1997 Lecture Notes on General Relativity Sean M. Carroll 1 Special Relativity and Flat Spacetime We will begin with a whirlwind tour of special relativity (SR) and life in flat spacetime. The point will be both to recall what SR is all about, and to introduce tensors and related

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INTRODUCTION TO GENERAL RELATIVITY

A First Course in General Relativity, and uses detailed solutions, cross-referenced to several introductory and more advanced textbooks, to enable self-learners, undergraduates, and postgraduates to master general relativity through problem solving. The perfect accompaniment to Schutz's textbook, this manual guides the reader step-by-

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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-

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