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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 ...

### **Two-body problem in general relativity - Wikipedia**

PHZ 6607 – Special and General Relativity – Fall 2016. Course: PHZ 6607, *Special and General Relativity*, ... Bernard F. Schutz [AEI/Cardiff] *A first course in general relativity* (Cambridge University Press, 1990). w/ Solutions to some problems; James B. Hartle ... Robert M. Wald, *General Relativity* (Univ. of Chicago, 1984). S. W. Hawking ...

### **Lecture Notes on General Relativity - S. Carroll**

General relativity (GR), also known as the general theory of relativity (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 refines Newton's law of universal gravitation, providing a unified description of gravity as a geometric property of space and ...

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## **Some Exact Solutions in General Relativity**

One of Wald's General Relativity problems. Ask Question Asked 6 years, 8 months ago. Active 6 years, 8 months ago. Viewed 1k times 7. 2  
I've been working through Wald's book "General Relativity", and I'm fairly stuck on question 4. a) of chapter 6: "Let  $(M, g_{ab})$  be a stationary space-time with time-like Killing field  $\xi^a$ . ...

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The first problem is looking for nice solutions of the Einstein equations. However, Before stating Einstein's equation, we need to briefly describe the concept of special relativity, otherwise general relativity will be hard to understand. Structure of the thesis This thesis has been written with the goal of being accessible to people with ...

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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

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of a planet orbiting its sun. Solutions are also used to describe the motion of binary stars around each other, and estimate their gradual loss of energy through gravitational radiation. It is customary to assume that both bo

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### **General relativity - Wikipedia**

Here are my solutions to various problems in Thomas A. Moore's textbook A General Relativity Workbook. As always, no guarantees that the answers are correct, but if you spot any errors, comments are always welcome. After some consideration, I've decided to repost this index to the solutions.

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a totally modern point of view; and it succeeds very well where others are only partially successful. The book includes full discussions of many problems of current interest which are not treated in any extant book, and all these matters are considered with perception and ...

### **Solutions to General Relativity by Wald**

"Wald's book is clearly the first textbook on general relativity with a totally modern point of view; and it succeeds very well where others are only partially successful. The book includes full discussions of many problems of current interest which are not treated in any extant book, and all these matters are considered with perception and ...

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Study Topic: General Relativity . I'm looking for a recommendation for either a dedicated problems and solved solutions book or, failing that, a textbook with a separate comprehensive solutions manual.

### **Problems with General Relativity - Citizen Science**

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Relativity:Solutions to Problems.

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View Homework Help - Wald Solutions from PHYS 538 at Yale University.  
Solutions to Problems from Walds Book General Relativity Lucas Braune1  
September 29, 2010 1 E-mail address:

**general relativity - Suggestions for GR solved problems ...**

[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.

**Solution Wald Problems General Relativity**

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.

**General Relativity, Wald**

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On Problems and Solutions of General Relativity Hyoyoung Choi y y Antigravity chicken house, Department of Physics, Seoul, Korea. [7icarus7@gmail.com] In commemoration of the 100th anniversary of general relativity, many others would look back on its history and achievements, so I will write mine focusing on the problems of general

### **PHZ 6607 -- Special and General Relativity -- Fall 2016**

Problems with General Relativity General Relativity has been one of the great feats of the human mind. It has accurately predicted the precession of the orbits of planets, determined the path of photons along a curved structure of space-time and even predicted the orbital collapse binary neutron stars. Most important is the value of general relativity in describing nature; Space and time ...

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### **Moore: A General Relativity Workbook - Physicspages**

PHYSICS 523: GENERAL RELATIVITY HOMEWORK 1 3 Problem 3. a) Consider a boost in the  $x$ -direction with speed  $v_A = \tanh \eta$  followed by a boost in the  $y$ -direction with speed  $v_B = \tanh \eta$ . We are to show that the resulting Lorentz transformation can be written as a pure rotation followed by a pure boost and determine the rotation and boost.

### **Solutions to Problems in General Relativity**

Solutions to General Relativity by Wald Daniel J. Cross November 17, 2008 Chapter 2 Solutions 1. a) Show that the overlap functions  $f_{\pm i} (f_{\pm j})^{-1}$  are  $C^\infty$ , thus completing the demonstration given in section 2.1 that  $S^2$  is a manifold. b) Show by explicit construction that two coordinate systems (as opposed to the six used in the text) suffice to

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