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## **A GENERAL RELATIVITY WORKBOOK - Pomona College**

Full solutions to any S problems appear at the end of this manual. (Note: There is only one S problems in ... 4 A General Relativity Workbook-- Online Student Manual Chapter 5 5.1.1 Hint: Equation



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5.18 predicts a vector pointing to the upper right, but  $T_s$  actually points to the upper left.

## **Online Student Manual**

These solutions reflect assignments made by Professor Igor Klebanov at Princeton University during his semester course on General Relativity during the

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fall of 2006. The course began relatively slowly, and picked up pace toward the end. The homeworks reflect this.

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

You can always choose to effectively use  $gt$  itself as one of the coordinates, by picking the functional form of  $gt$  to be

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any arbitrarily specified function  $f(z)$ . For instance, choose  $g_{tt} = -\exp(-2z)$  (4.93) then a useful choice is  $ds^2 = -\exp(-2z)dt^2 + \exp(+2z) dz^2 + R(z)^2 d\Omega^2$ .

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

general theory of relativity. Only a few

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parts, including the treatment of the stress-energy tensor are adapted in accordance with later reformulations of the theory, and contravariant coordinates are consistently labeled by superscripts. In comparison with the special theory of relativity, which applies in flat spacetime,

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## **Introduction to General Relativity - Universiteit Leiden**

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.

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## **Exact solutions in general relativity - Wikipedia**

special relativity. This is Einstein's famous strong equivalence principle and it makes general relativity an extension of special relativity to a curved spacetime. The third key idea is that mass (as well as mass and momentum flux) curves spacetime in a manner

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described by the tensor field equations of Einstein.

## **Introduction to Tensor Calculus for General Relativity**

A General Relativity Workbook is a textbook intended to support a one-semester upper division undergraduate course on general relativity. Through its

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To find solutions of the mentioned above problems different sorts of modification of General Relativity were used. Among them we distinguish for example  $F(R)$  theory, Lovelock Gravity, nonlocal modifications of the gravitational action, approaches which incorporate torsion tensor, namely Teleparallel Gravity, Scalar-Tensor Gravity.

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**arXiv:2001.03574v2 [hep-th] 21  
May 2020**

For example, when the metric  $ds^2$  of general relativity is introduced, the reader has already seen a metric in three other contexts. Chapter 3 solves the field equation for a spherically symmetric spacetime to obtain the

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Schwarzschild metric. The geodesic equations are then solved and applied to the classical solar system tests of general relativity.

## **Elementary General Relativity - Luther College**

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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 is the current description of gravitation in modern physics. General relativity generalizes special relativity and refines

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Newton's law of universal gravitation, providing a unified description of gravity as a geometric property of space ...

## **General relativity - Wikipedia**

The correct solutions to many of the more difficult problems in earlier chapters have a way of turning up in later chapters; with patience, students

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will eventually learn those solutions as they work toward the end of the book. ... In my view, Thomas Moore's A General Relativity Workbook ranks right up there with the best of them. Ryden's ...

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