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Solutions to Problems in General Relativity

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

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Online Student Manual

general theory of relativity. Only a few 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

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in flat spacetime,

Introduction to General Relativity

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

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flux) curves spacetime in a manner described by the tensor field equations of Einstein.

Introduction to Tensor Calculus for General Relativity

In general relativity, an exact solution is a Lorentzian manifold equipped with tensor fields modeling states of ordinary

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matter, such as a fluid, or classical non-gravitational fields such as the electromagnetic field .

Exact solutions in general relativity - Wikipedia

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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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general relativity which demands careful study. It can be used as a textbook for general relativity or as an adjunct to standard texts. It is also suitable for self-study by more advanced students. All this should make general relativity available to a wider audience than before.

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Elementary General Relativity - Luther College

Reference: Moore, Thomas A., A General Relativity Workbook, University Science Books (2013) - Chapter 8; Problem 8.1.
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