

## General Relativity Wald Solutions

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Find the components,  $g$  and  $g^{-1}$ , of the metric and inverse metric in rotating coordinates, defined by  $t = t, x = (x^2 + y^2)^{1/2} \cos(t), y = (x^2 + y^2)^{1/2} \sin(t), z =$

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$z$ , where  $\tan = y/x$ . Solution of (a) Let  $(x_1, \dots, x_n)$  and  $(x_1, \dots, x_n)$  be coordinates on some manifold  $M$ .

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Solution to (a) The most general form of a 2-form  $F_{ab}$  in Schwarzschild spacetime is  $F_{ab} = A(e_0)[a(e_1)b] + B(e_0)[a(e_2)b] + C(e_0)[a(e_3)b] + D(e_1)[a(e_2)b] + E(e_1)[a(e_3)b] + G(e_2)[a(e_3)b]$ , where  $A, B, C, D, E$  and  $G$  are functions of  $(t, r, \theta, \phi)$ .

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## ~~General Relativity Wald Solutions~~

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.

## ~~Solutions to Problems in General Relativity~~

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

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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 in flat spacetime,

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General Relativity, by Robert M. Wald, University of Chicago Press (1984). Copies of the classnotes are on the internet in PDF format as given below. The "Proofs of Theorems" files were prepared in Beamer and they contain proofs of the results from the class notes.

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On the definition of distance in general relativity: I. M. H. Etherington (Philosophical Magazine ser. 7, vol. 15, 761 (1933)) George F. R. Ellis 1 General Relativity and Gravitation volume 39 , pages 1047 – 1052 ( 2007 ) Cite this article

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Albert Einstein - Leiden Lecture On Ether and Relativity. Recapitulating, we may say that according to the general theory of relativity space is endowed with physical qualities; in this sense, therefore, there exists an ether. According to the general theory of relativity space without ether is unthinkable; for in such space there not only would be no propagation of light, but also no ...

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