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Chapter 2 Solutions 1.

a) Show that the overlap functions  $f \pm i$  ( $f \pm j$ ) 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)

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in section 21 that  $S^2$  is a manifold [PDF] General Relativity Problems

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

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$\sin(t), z = z$ , 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  $F_{ab} = A(e_0$

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$$) [a(e_1)b] + B(e_0) [a(e_2)b] + C(e_0) [a(e_3)b] + D(e_1) [a(e_2)b] + E(e_1) [a(e_3)b] + G(e_2) [a(e_3)b]$$
, where A, B, C, D, E and G are functions of  $(t, r, \theta, \phi)$ .

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These solutions reflect assignments made by Professor Igor Klebanov at Princeton University

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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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General relativity, also known as the general theory of relativity, is

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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

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Robert M. Wald,  
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Recapitulating, we may

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general theory of  
relativity space is

endowed with physical

qualities; in this sense,

therefore, there exists an

ether. According to the

general theory of

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only would be no

propagation of light, but

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extant book, and all  
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the most elegant and successful scientific theories ever developed, and it is increasingly being taught in a simplified form at advanced undergraduate level within both physics and mathematics departments. Due to the increasing interest in gravitational physics, in both the academic and

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approach, before  
describing some of its  
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problems, this textbook provides a solid foundation for

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It is important for every physicist today to have a working knowledge of Einstein's theory of general relativity.

Introduction to General

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Relativity published in 2007 was aimed at first-year graduate students, or advanced

undergraduates, in physics. Only a basic understanding of classical lagrangian mechanics is assumed; beyond that, the reader should find the material to be self-contained.

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constrained to move without friction on a two-dimensional surface of arbitrary shape serves as a paradigm for the development of the mathematics and physics of general relativity. Special relativity is reviewed. The basic principles of general relativity are then presented, and the most important

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calculations while

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Although well suited for

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