

Solutions to *General Relativity* by Wald

Daniel J. Cross

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Chapter 2 Solutions

1. a) Show that the overlap functions $f_i^\pm \circ (f_j^\pm)^{-1}$ are C^∞ , 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 cover S^2 . (It is impossible to cover S^2 with a single chart, as follows from the fact that S^2 is compact, but every open subset of $\mathbb{R}^2$ is noncompact.)

a) The maps are defined as acting on the standard embedding of the sphere into $\mathbb{R}^3$. $f_i^\pm$ is a projection of upper (lower) hemisphere into the plane, for example

$$f_2^\pm(x^1, x^2, x^3) = (x^1, x^2),$$

and the others are similar. The inverse map stretches the plane up or down into the corresponding hemisphere,

$$(f_2^\pm)^{-1}(y^1, y^2) = (y^1, \pm\sqrt{1 - ((y^1)^2 + (y^2)^2)}, y^2),$$

and so on. The overlap map then projects out two of these coordinates, so up to exchanging coordinates it is either of the two maps

$$\begin{aligned} (y^1, y^2) &\mapsto (y^1, y^2) \\ (y^1, y^2) &\mapsto (y^1, \pm\sqrt{1 - ((y^1)^2 + (y^2)^2)}), \end{aligned}$$

both of which are C^∞ in their domain of definition, $(y^1)^2 + (y^2)^2 < 1$.

b) Construct a chart by drawing a line from the north pole N through any given point $p \neq N$ on the sphere. The point where this line hits the plane $x^3 = 0$ is the image of p under the chart. This map is defined for all points except N and is called stereographic projection from N . A similar chart defined at S (or any other chart about S) then together with the first form an atlas for S^2 . An explicit form of the map can be found geometrically. The line through p and N (thought of as vector in $\mathbb{R}^3$) is (with $N = (0, 0, 1)$)

$$p + t(p - N) = (t(1 + p^1), t(1 + p^2), t(1 + p^3) - t).$$

Solving for when $x^3 = 0$ we get

$$t = \frac{p^3}{1 - p^3},$$

which then gives

$$x^i = \frac{p^i}{1 - p^3}.$$

The inverse maps are found similarly by starting with a point (y^1, y^2) in the plane, constructing the line $N + t(N - y)$ through N and y and finding where this hits the sphere:

$$1 = |x(t)|^2 = (y^1)^2 t^2 + (y^2)^2 t^2 + (t + 1)^2,$$

which has solution

$$t = \frac{-2}{1 + |y|^2},$$

and gives the mapping

$$(y^1, y^2) \mapsto \frac{1}{1 + |y|^2} (2y^1, 2y^2, |y|^2 - 1).$$

Wald General Relativity Solution Manual

Robert M. Wald



Wald General Relativity Solution Manual:

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300 Problems in Special and General Relativity Mattias Blennow, Tommy Ohlsson, 2021-12-09 A textbook neutral problems and solutions book that complements any relativity textbook at advanced undergraduate or masters level

[Core List of Books and Journals in Science and Technology](#) Russell H. Powell, James R. Powell, 1987-10

Whitaker's Cumulative Book List, 1984

Exploring Osaka David M. Dunfield, 1993 A comprehensive English language guide to the city of Osaka for business travellers and tourists alike Second only to Tokyo as a banking and trade centre of Japan Osaka is a centre of tradition and culture as well the home of bunraku puppet theatre for example and is minutes by rail from Japan's ancient capitals of Kyoto and Nara A variety of suggested sightseeing itineraries are included as well as recommended museums restaurants and hotels a list of festival dates and sources of additional information

Paperbound Books in Print, 1992

Scientific and Technical Books and Serials in Print, 1989

Global Spacetime Structure JB Manchak, 2020-12-03 This exploration of the global structure of spacetime within the context of general relativity examines the causal and singular structures of spacetime revealing some of the curious possibilities that are compatible with the theory such as time travel and holes of various types Investigations into the epistemic and modal structures of spacetime highlight the difficulties in ruling out such possibilities unlikely as they may seem at first The upshot seems to be that what counts as a physically reasonable spacetime

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