

Solutions to *General Relativity* by Wald

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November 17, 2008

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

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

General Relativity Wald Solutions Manual

JB Manchak



General Relativity Wald Solutions Manual:

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Paperbound Books in Print, 1991. [Global Spacetime Structure](#) J. B. 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 structure in modern physics is far from clear. [Scientific and Technical Books and Serials in Print](#), 1989. *Scientific and Technical Books in Print*, 1972. **Subject Guide to Books in Print**, 1984.

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