

Solutions to *General Relativity* by Wald

Daniel J. Cross

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

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

Wald General Relativity Solution Manual

JB Manchak



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history overview of sobibor jewish virtual library - May 06 2022

web the museum has 16 thematic areas explaining the history of sobibor and the holocaust in occupied poland the museum
owns 11 000 artifacts 700 of which are displayed sources the forgotten camps israeli archaeologist digs up past at infamous
sobibor death camp washington post august 21 2012

[sobibor holocaust encyclopedia](#) - Sep 22 2023

web oct 2 2020 german ss and police authorities constructed sobibor in the spring of 1942 it was the second of three killing
centers established as part of operation reinhard also known as aktion reinhard or einsatz reinhard operation reinhard was
the plan to murder the jews of the general government generalgouvernement