#### Solutions to General Relativity by Wald

#### Daniel J. Cross.

#### November 17, 2008

#### Chapter 2 Solutions

a) Show that the overlap functions f<sub>i</sub><sup>±</sup> ◦ (f<sub>j</sub><sup>±</sup>)<sup>-1</sup> are C<sup>∞</sup>, thus completing the demonstration given in section 2.1 that S<sup>2</sup> 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<sup>2</sup>. (It is impossible to cover S<sup>2</sup> with a single chart, as follows from the fact that S<sup>2</sup> is compact, but very open subset of R<sup>2</sup> is noncompact.)
- a) The maps are defined as acting on the standard embedding of the sphere into ℝ<sup>3</sup>. f<sub>i</sub><sup>±</sup> is a projection of upper (lower) hemisphere into the plane, for example

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

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

$$(y^1, y^2) \longrightarrow (y^1, y^2)$$
  
 $(y^1, y^2) \longrightarrow (y^i, \pm \sqrt{1 - ((y^1)^2 + (y^2)^2)}).$ 

both of which are  $C^{\infty}$  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 ≠ N on the sphere. The point where this line hits the plane x³ = 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 S². An explicit form of the map can be found geometrically. The line through p and N (thought of as vector in R³) 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

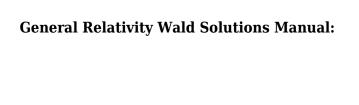
$$t = \frac{-2}{1 + |y|^2}$$

and gives the mapping

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

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## **Table of Contents General Relativity Wald Solutions Manual**

- 1. Understanding the eBook General Relativity Wald Solutions Manual
  - The Rise of Digital Reading General Relativity Wald Solutions Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying General Relativity Wald Solutions Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an General Relativity Wald Solutions Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from General Relativity Wald Solutions Manual
  - Personalized Recommendations
  - General Relativity Wald Solutions Manual User Reviews and Ratings
  - o General Relativity Wald Solutions Manual and Bestseller Lists

- 5. Accessing General Relativity Wald Solutions Manual Free and Paid eBooks
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  - General Relativity Wald Solutions Manual Budget-Friendly Options
- 6. Navigating General Relativity Wald Solutions Manual eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - General Relativity Wald Solutions Manual Compatibility with Devices
  - General Relativity Wald Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of General Relativity Wald Solutions Manual
  - Highlighting and Note-Taking General Relativity Wald Solutions Manual
  - Interactive Elements General Relativity Wald Solutions Manual
- 8. Staying Engaged with General Relativity Wald Solutions Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - $\circ\,$  Following Authors and Publishers General Relativity Wald Solutions Manual
- 9. Balancing eBooks and Physical Books General Relativity Wald Solutions Manual
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection General Relativity Wald Solutions Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine General Relativity Wald Solutions Manual
  - Setting Reading Goals General Relativity Wald Solutions Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of General Relativity Wald Solutions Manual
  - Fact-Checking eBook Content of General Relativity Wald Solutions Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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