

Solutions to *General Relativity* by Wald

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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

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

General Relativity Wald Solutions Manual

John Dirk Walecka



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300 Problems in Special and General Relativity Mattias Blennow, Tommy Ohlsson, 2021-12-09 Einstein's theories of special relativity and general relativity form a core part of today's undergraduate or Masters level physics curriculum. This is a supplementary problem book or student's manual consisting of 150 problems in each of special and general relativity. The problems, which have been developed, tested, and refined by the authors over the past two decades, are a mixture of short form and multi-part extended problems with hints provided where appropriate. Complete solutions are elaborated for every problem in a different section of the book; some solutions include brief discussions on their physical or historical significance. Designed as a companion text to complement a main relativity textbook, it does not assume access to any specific textbook. This is a helpful resource for advanced students for self-study, a source of problems for university teaching assistants or as inspiration for instructors and examiners constructing problems for their lectures, homework, or exams.

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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 a 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

- General Relativity Wald Solutions Manual and Bestseller Lists
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 - Highlighting and Note-Taking General Relativity Wald Solutions Manual
 - Interactive Elements General Relativity Wald Solutions Manual
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 - Participating in Virtual Book Clubs
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals General Relativity Wald Solutions Manual
 - Carving Out Dedicated Reading Time
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 - Fact-Checking eBook Content of General Relativity Wald Solutions Manual
 - Distinguishing Credible Sources

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 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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