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~~David Fajman:
Dynamics of General
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*Bekenstein Memorial
Lecture - by Robert
Wald on Black Holes
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Black Hole*

*Thermodynamics -
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**The Hardest Physics
Topic** *What is
General Relativity?*

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Galloway: Topology

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Einstein's General

Theory of Relativity

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Quantum Gravity and
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in Physics | Space

Time WSU: Space,

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with Brian Greene

Gautam Mandal -

Hawkings derivation

of Black-hole entropy

and Hawking radiation

Robert Wald - Closing

remarks (Stephen

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~~Hawking 75th Wald
Birthday Conference
on Gravity and Black
Holes) Light Rays and
Black Holes I—
Edward Witten~~

How we know that
Einstein's General
Relativity can't be
quite right

WSU: Special
Relativity with Brian
Greene

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*List of contributors to
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Black Hole**

Thermodynamics

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Solutions to General

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Relativity by Wald

Daniel J. Cross

November 17, 2008

Chapter 2 Solutions 1.

a) Show that the overlap functions $f_{\pm i}$ ($f_{\pm j}$) 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

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(as opposed to the six
used in the text)
source to

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Daniel J Cross

November 17, 2008

Chapter 2 Solutions 1

a) Show that the

overlap functions $f_{\pm i}$

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($f \pm j$) $\neq 1$ are $C^?$, thus

completing the

demonstration given

in section 21 that S^2

is a manifold [PDF]

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Problems And

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~~Wald General~~

~~Relativity Solutions~~

Find the components,

g and g^{-1} , of the metric

and inverse metric

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inrotating coordinates,
dened by $t = t$, $x = (x^2 + y^2)^{1/2} \cos(t)$, $y = (x^2 + y^2)^{1/2} \sin(t)$, $z = z$, where $\tan = y/x$.

Solution of (a) Let (x_1, \dots, x_n) and (x_1, \dots, x_n) be coordinates on some manifold M .

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~~Basis (Linear Algebra~~

...

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Solution to (a) The most general form of a 2-form F_{ab} in

Schwarzschild

spacetime is $F_{ab} =$

$$A(e^0) [a(e^1) b] +$$

$$B(e^0) [a(e^2) b] +$$

$$C(e^0) [a(e^3) b] + +$$

$$D(e^1) [a(e^2) b] +$$

$$E(e^1) [a(e^3) b] +$$

$$G(e^2) [a(e^3) b] ,$$

where A, B, C, D, E

and G are functions of

(t, r, θ, ϕ) .

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the world.

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Relativity by Wald

Daniel J. Cross

November 17, 2008

Chapter 2 Solutions 1.

a) Show that the
overlap functions $f_{\pm i}$

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$(f \pm j) \cdot 1$ are C^1 , thus completing the demonstration given in section 2.1 that S_2 is a manifold.

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These solutions reflect assignments made by Professor Igor Klebanov at Princeton University during his semester

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course on General

Relativity during the
fall of 2006. The

course began
relatively slowly, and
picked up pace
toward the end. The
homeworks reflect
this.

~~Solutions to Problems
in General Relativity~~

General relativity, also
known as the general

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theory of relativity, is the geometric theory of gravitation published by Albert Einstein in 1915 and is the current description of gravitation in modern physics. General relativity generalizes special relativity and refines Newton's law of universal gravitation, providing

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a unified description
of gravity as a
geometric property of
space and time or ...

~~General relativity—~~

Wikipedia

general theory of
relativity. Only a few
parts, including the
treatment of the
stress-energy tensor
are adapted in
accordance with later

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reformulations of the theory, and contravariant coordinates are consistently labeled by superscripts. In comparison with the special theory of relativity, which applies in \mathbb{R}^4 spacetime,

Introduction to
~~General Relativity~~

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~~Universiteit Leiden~~

"Wald's book is
clearly the first

textbook on general
relativity with a totally
modern point of view;
and it succeeds very
well where others are
only partially
successful. The book
includes full...

~~General Relativity by
Robert M. Wald~~

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From the UCSD

course catalogue:

This is a two-quarter course on gravitation and the general theory of relativity.

The first quarter is intended to be offered every year and may be taken

independently of the second quarter. ...

And Solutions.

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Homework. Due
January 21 ... Robert
M. Wald. General
Relativity. Steven
Weinberg.

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Relativity~~

the funds for under as
skillfully as evaluation
solution to general
relativity by wald what
you past to read!
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relativity by General

relativity. $G_{\mu\nu} + \Lambda g_{\mu\nu} = \frac{8\pi G}{c^4} T_{\mu\nu}$.

$\{\displaystyle G_{\mu\nu} + \Lambda g_{\mu\nu} = \frac{8\pi G}{c^4} T_{\mu\nu}\}$

$\{\displaystyle G_{\mu\nu} + \Lambda g_{\mu\nu} = \frac{8\pi G}{c^4} T_{\mu\nu}\}$

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History. Mathematical

formulation. Tests.

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General Relativity, by Robert M. Wald, University of Chicago Press (1984). Copies of the classnotes are on the internet in PDF format as given below. The "Proofs of Theorems" files were prepared in Beamer and they contain proofs of the results from the class notes.

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~~"Differential Geometry
Class Notes from
Wald" Webpage~~

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Robert M. Wald

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book is clearly the first

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relativity with a totally

modern point of view;

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and it succeeds very well where others are only partially successful. The book includes full discussions of many problems of current interest which are not

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~~dev.horsensleksikon~~

Basic features of dynamical black holes

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in full, non-linear
general relativity are
summarized in a
pedagogical fashion.
Qualitative properties
of the evolution of
various horizons
follow directly from
the celebrated
Raychaudhuri
equation.

~~Black hole dynamics
in general relativity |~~

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"Wald's book is clearly the first textbook on general relativity with a totally modern point of view; and it succeeds very well where others are only partially successful. The book includes full discussions of many

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Problems of current
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On the definition of
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Etherington

(Philosophical

Magazine ser. 7, vol.
15, 761 (1933))

George F. R. Ellis 1

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General Relativity and
Gravitation volume 39
, pages 1047 – 1052 (2007) Cite this article

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distance in general
relativity: I. M ...~~

Albert Einstein -
Leiden Lecture On
Ether and Relativity.
Recapitulating, we
may say that
according to the

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general theory of relativity space is endowed with physical qualities; in this sense, therefore, there exists an ether. According to the general theory of relativity space without ether is unthinkable; for in such space there not only would be no propagation of light,

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but also no ... Wald
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