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This document contains solutions to many of the Exercises in the second edition of *A First Course in General Relativity*. The textbook offers an extensive collection of exercises, some of which prove results omitted from the text, or form the basis for later exercises, or provide the foundation for results in later chapters.

[Schutz, B. - A First Course in General Relativity \(Solutions\)](#)

Schutz, *A First Course in General Relativity*, and uses detailed solutions, cross-referenced to several introductory and more advanced textbooks, to enable self-learners, undergraduates and postgraduates to master general relativity through problem solving.

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[Schutz General Relativity Solutions - jenniferbachdim.com](#)

These solutions reflect assignments made by Professor Igor Klebanov at Princeton University during his semester 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](#)

$U_0 = (1 - v^2)^{-1/2}$, $p_0 = m(1 - v^2)^{-1/2}$, $U_1 = v(1 - v^2)^{-1/2}$, $p_1 = mv(1 - v^2)^{-1/2}$, $U_2 = 0$, $p_2 = 0$, $U_3 = 0$, $p_3 = 0$. For small v , the spatial components of U are $(v, 0, 0)$, which justifies calling it the four-velocity, while the spatial components of p are $(mv, 0, 0)$, justifying its name. For small v , the energy is $E := p_0 = m(1 - v^2)^{-1/2} \approx m + \frac{1}{2}mv^2$.

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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. Homework. Due January 21 ... *A First Course In General Relativity*. Bernard F. Schutz.

[Phys 225B - General Relativity](#)

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[A First Course in General Relativity by Bernard Schutz](#)

Schutz (2009) "*A First Course in General Relativity*", I wrote a student's study guide based on Schutz's book, submitted to CUP October 2014. You'll find complete detailed answers to about 1/2 of the problems. I include new exercises (most of them are easier) with answers to the odd ones.

[Robert Scott's self-study notes - univ-brest.fr](#)

$h_{\alpha\beta} = 2 + \sin^2(\alpha) d^2 + \sin^2(\beta) d^2$; where by the dot \cdot we mean the usual inner product on Minkowski space. The metric for the Einstein static universe, in these coordinates, is of FLRW form with scale factor $a(t)$ equal to the constant a_0 and for spatial metric of positive scalar curvature, $k = 1$.

[PX436: General Relativity - University of Warwick](#)

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