

A First Course in General Relativity

Bernard F Schutz

(2nd Edition, Cambridge University Press, 2009)

Solutions to Selected Exercises

(Version 1.0, November 2009)

To the user of these solutions:

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. Doing exercises is integral to the process of learning a subject as complex and conceptually challenging as general relativity. These solutions, therefore, are meant to help users of this book master exercises that they might have had difficulty with. It is assumed that an attempt has already been made at solving the problem!

Solutions are provided to those problems which might present particular conceptual challenges; those which require just routine algebra, and those which require computer solutions, are generally not included.

I hope you find the solutions helpful!

Bernard Schutz
Potsdam, Germany

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A First Course in General Relativity Bernard Schutz, 2009-05-14 Second edition of a widely used textbook providing the first step into general relativity for undergraduate students with minimal mathematical background

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