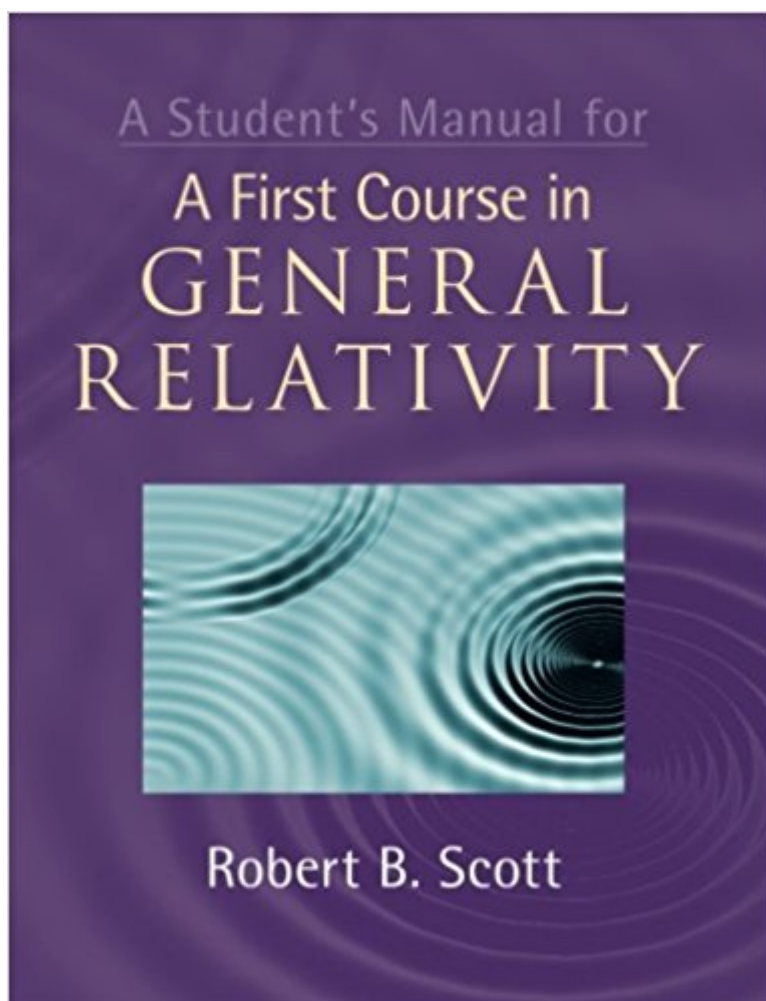


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# A Student's Manual For A First Course In General Relativity



## Synopsis

This comprehensive student manual has been designed to accompany the leading textbook by Bernard 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. The perfect accompaniment to Schutz's textbook, this manual guides the reader step-by-step through over 200 exercises, with clear easy-to-follow derivations. It provides detailed solutions to almost half of Schutz's exercises, and includes 125 brand new supplementary problems that address the subtle points of each chapter. It includes a comprehensive index and collects useful mathematical results, such as transformation matrices and Christoffel symbols for commonly studied spacetimes, in an appendix. Supported by an online table categorising exercises, a Maple worksheet and an instructors' manual, this text provides an invaluable resource for all students and instructors using Schutz's textbook.

## Book Information

Paperback: 370 pages

Publisher: Cambridge University Press; Student edition (February 1, 2016)

Language: English

ISBN-10: 1107638577

ISBN-13: 978-1107638570

Product Dimensions: 7.4 x 0.6 x 9.7 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 5 customer reviews

Best Sellers Rank: #341,830 in Books (See Top 100 in Books) #168 in Books > Science & Math > Physics > Relativity #384 in Books > Textbooks > Science & Mathematics > Astronomy & Astrophysics #410 in Books > Science & Math > Astronomy & Space Science > Cosmology

## Customer Reviews

"Robert Scott has done a great service to students and instructors alike by compiling this superb Student's Manual to Bernard Schutz's *A First Course in General Relativity*, a classic introductory textbook on general relativity. Not only does Scott present exquisitely detailed solutions to Schutz's exercises, he also proposes a large number of his own problems to further test the student's understanding. The student will benefit greatly from this resource, and will be eased into the subject by Scott's excellent advice." Eric Poisson, University of Guelph  
"In attempting to master any subject, there is no substitute for working through problems, and this is especially true for developing an

understanding of relativity. This collection of solutions to a range of selected problems from Schutz's classic textbook *A First Course in General Relativity* contains carefully worked model answers that should provide an invaluable resource to generations of students." Michael Hobson, University of Cambridge "This Student's Manual, with its detailed calculations and very pedagogical explanations, is an extremely valuable tool for learning general relativity and acquiring a solid foundation in this field. I highly recommend it!" Ericourgoulhon, Université Paris Diderot

This comprehensive student manual provides the perfect accompaniment to the leading textbook by Bernard Schutz, *A First Course in General Relativity*. Meticulously detailed solutions to almost half of Schutz's exercises and 125 brand new supplementary problems enable undergraduates, postgraduates and self-learners to master general relativity with confidence.

great

Splendid! A+

Using this for the fun of experiencing GR for my personal self-actualization.

Very clearly written. Dr. Scott has worked very hard to prepare an excellent resource for self learners of general relativity.

Great book, we can learn Relativity with concretes examples. Even if it's a Math-Based introduction. I used it for my bachelor degree in France.

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