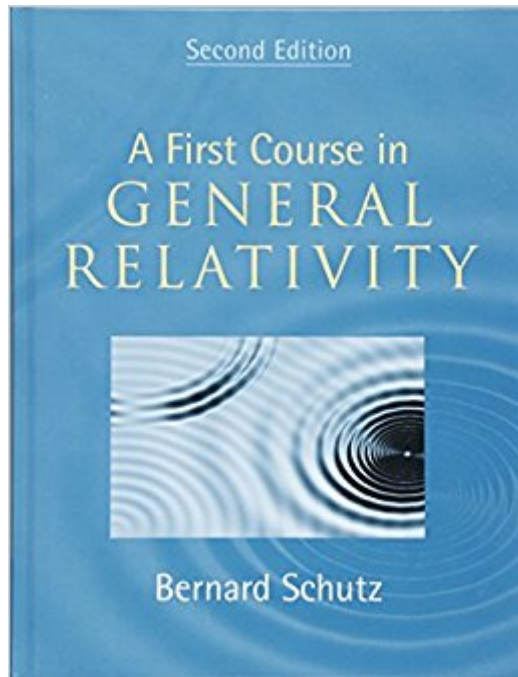


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# A First Course In General Relativity



## Synopsis

Clarity, readability and rigor combine in the second edition of this widely-used textbook to provide the first step into general relativity for undergraduate students with a minimal background in mathematics. Topics within relativity that fascinate astrophysical researchers and students alike are covered with Schutz's characteristic ease and authority - from black holes to gravitational lenses, from pulsars to the study of the Universe as a whole. This edition now contains discoveries by astronomers that require general relativity for their explanation; a revised chapter on relativistic stars, including new information on pulsars; an entirely rewritten chapter on cosmology; and an extended, comprehensive treatment of modern detectors and expected sources. Over 300 exercises, many new to this edition, give students the confidence to work with general relativity and the necessary mathematics, whilst the informal writing style makes the subject matter easily accessible.

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## Customer Reviews

"Schutz has done a masterful job of incorporating ... new developments into a revised edition, which is sure to become a new "classic." I look forward to teaching out of the second edition of "first course." Clifford M Will, McDonnell Center for the Space Sciences, Washington University, St Louis" This new edition retains all of the original's clarity and insight into the mathematical foundations of general relativity, but thoroughly updates the accounts of the application of the theory in astrophysics and cosmology, which have moved on considerably ... The result is an indispensable volume for anyone wishing to develop a deep and physically well-motivated

understanding of relativistic gravitation, and this new edition will no doubt become a classic text in its own right." Mike Hobson, Cavendish Laboratory, University of Cambridge"Schutz has updated his eminently readable and eminently teachable A First Course in General Relativity. The result maintains the style of the first edition -- intuitively and physically motivated presentation of the subject. ... This text will be appreciated by any upper level undergraduate with an interest in cosmology, astrophysics, or experimentation in gravitational physics." Richard Matzner, The Center for Relativity, University of Texas at Austin"Well laid out, developing logically and amply illustrated. Absolutely recommended." Times Higher Education Supplement

Clarity, readability and rigor combine in the second edition of this widely-used textbook to provide the first step into general relativity for undergraduate students with a minimal background in mathematics. Over 300 exercises give students the confidence to work with general relativity and the necessary mathematics.

Great introduction to general relativity. Much quicker than Hartles book in terms of getting you up to speed on the relevant mathematics, though with less breadth of content (and dare I say "less physics"). Unlike Carroll's book, this is truly and will teach you what you want to know quickly without giving you a headache.

This book does not display the numbered equations in a readable format on my iPad. Oddly enough, the sample ebook worked perfectly on the same iPad. I have contacted three times during the preceding three weeks for a fix but to no avail.

The book gives a complete introductory course. It is generally easy to follow with many derivation steps given. There is also textual explanation to give the big picture of concepts. Shortcomings are that some derivations depend on solutions to homework problems, so one is left in the dark if one cannot solve the problem.

Good Book!

There's a reason this one is the standard. It's informative, concise, and well-written. I took GR as a self-study and I learned a lot from this textbook.

Looks like new. Very good.

A very good book, if you into some heavy stuff and have the math and physic background this is worth reading.

Excellent

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