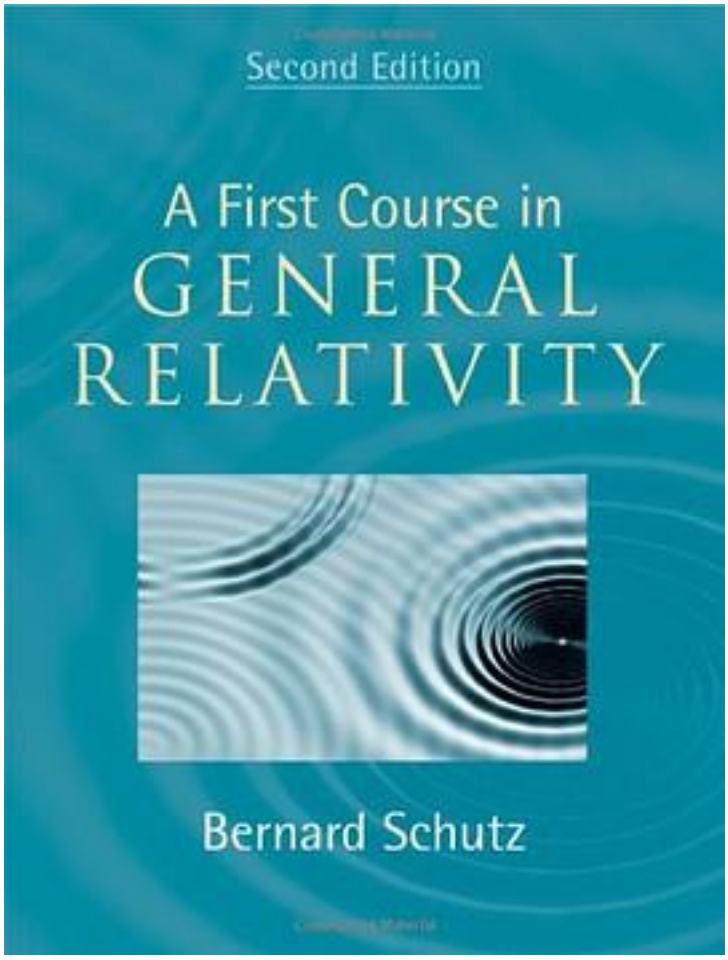
A First Course in General Relativity



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著者:Bernard Schutz

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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 recent 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 gravitational wave detectors and expected sources.

作者介绍:

Bernard Schutz is Director of the Max Planck Institute for Gravitational Physics, a Professor at Cardiff University, UK, and an Honorary Professor at the University of Potsdam and the University of Hannover, Germany. He is also a Principal Investigator of the GEO600 detector project and a member of the Executive Committee of the LIGO Scientific Collaboration. Professor Schutz has been awarded the Amaldi Gold Medal of the Italian Society for Gravitation.

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标签

物理

相对论

Physics

广义相对论

GR

教材

英语

physics

评论

这本书里面错误非常多，特别是第9章。特别奇怪，Schutz是专门研究引力波的，但是偏偏引力波这一章书里错误很多。 ----
备注：忘记把在读改为已读了

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really nice and friendly book

这本推导不是很仔细，不适合研究生用。

证明没细看当科普，的确解释得很清晰可以当作科普书。

数学看得费劲得很……

太简略了，证明少得可怜，还不如直接上MTW 或者 Weinberg

假期最后几天把这本书最后一点点给啃下，总体来说这本书的亮点在于前面几章，入门方式非常友好，但是后面的推导很不仔细，跳步骤很厉害，从爱因斯坦场方程开始建议切换到Carroll的那个lecture note

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翻过

用来入门最好的教材，不过深入学习还得再看更高等的书。亮点是前几张数学铺垫，可谓贴心～

思路清晰，讲解细致，深入浅出。特别是讲张量和曲率的部分，把晕乎乎的上下标理得明明白白，是期末急救党的福音。

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书评

非常棒的一本广相书，美中不足就是到后面感觉不如前面那种慢慢过关斩将，一步步走近大师的理论的感觉。如果仔细看的话，全书最精彩的大头便是微分几何与张量分析（虽然占了很大篇幅，但并不是啰嗦，如果你和同类书去比的话，你会发现大多在第四第五章就涉足场方程了，而这本书...

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