Written by two of the field's true pioneers, Spacetime Physics can extend and enhance coverage of specialty relativity in the classroom. This thoroughly up-to-date, highly accessible overview covers microgravity, collider accelerators, satellite probes, neutron detectors, radioastronomy, and pulsars. The chapter on general relativity with new material on gravity waves, black holes, and cosmology.

This modern book on Special Relativity, which includes also some basic concepts of General Relativity (such as the Principle of Equivalence). Unlike traditional books, this book abandons Space and Time right from the start and makes you absorb the new concept of Spacetime in a very light way. Both basic and advanced topics are covered and the authors really make you feel that Relativity is easy and fun. I think this should be your first or second book to read when starting on (Special) Relativity.

The author here does a fantastic job of helping the reader grasp the concept of relativity. It is presented very clearly, and logically, in a way that any reader with a high-school-level knowledge of mathematics (a little geometry, and some pretty basic algebra) can fully appreciate. In addition, it includes many problems, with answers worked out to the odd-numbered ones. The problems themselves range from being somewhat trivial, but still interesting, to rather difficult at times. Many examples of real-world experiments and applications are also dealt with.
This was highly recommended to me and it delivered completely. A thorough text book that ensures you learn the ins and outs in huge detail and commit them to memory. Was looking for something to learn special relativity the same way I physics is learnt at school and this is it.

Very Nice!

This is an amazing work, which I once read in high school from the library, though never finished. Whenever I need to explain relativity I use Taylor and Wheeler’s example as explained in the book, though I seem to never do it justice. Though I can safely say that the conclusions of the book are mind boggling, in general they do seem quite logically put forth so that by the end though the conclusion seems odd you agreed all the way. In general they do make a good effort of explaining things, but space-time physics isn’t usually intuitive, sometimes for a moment, but one quickly contradicts themselves seemingly (at least for myself). I do suggest this book as a beginning even the first few chapters are worthwhile, though the later get more enveloped in math, it is simple math (I don’t recall any calculus for instance), just the meaning behind the math requires some thought. Who knew even addition could be complicated. I don’t regret buying the book and would suggest it to friends who don’t know much about physics or Einstein’s theories. Even if some parts are difficult it is definitely worth while.

AAA+++

I bought this book to cover the requisite material that is required to study general relativity. I am a mathematician engaging in a self-study program in physics. Since I’m on my own I need text books that can be understood. My feeling is that the authors try too hard to be entertaining and creative. The text is loaded with strange metaphors and analogies, as well as many long winded stories in an attempt to foster the reader’s intuition of the various concepts. For example, to express the notion that the universe is not endowed with absolute time the author discusses the enthronement of the successor of the Emperor Hirohito! He then goes into this annoying self-questioning dialogue. Here’s an example: "Where is there any meter to be seen that shows any such quality of location as time? Meter to measure the temperature here and now? Yes, this thermometer. Meter to measure atmospheric pressure here and now? Yes, this barometer." Who actually talks like this?? Good God almighty!!! I am not typically a linguistically sensitive person, but the author’s phraseology really bugs me! In a special topic section, they explain why they don’t use the word "the" in front of the words
Sun and Earth. For example, it's proper to say the distance between Earth and Sun (not the Earth and the Sun). That actually makes sense to me. The problem is that they generalize this notion and omit the words "the" and "a" in the most awkward places. Here's an example from Section 4.2. "We eliminate mirror, photodetector and, most of all, those upward-extended arrays of printout clocks in rocket and laboratory frames". There are many more examples where the authors sound like Tarzan. I quit reading many books because I couldn't comprehend the material!! But this is the first time that I put down a book because the style was too irritating! I would take the advice of some of the other reviewers and borrow this book from the library before purchasing! It's confusing and annoying!!

This book was required for a 0.5 credit Special Relativity class. It's not your average take on Spec. Rel... It tries (and mostly succeeds) to give the reader a more intuitive feel for the nature of things and does so in a surprisingly entertaining fashion. If you're looking for a rigorous text with lots of equations, look elsewhere.

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