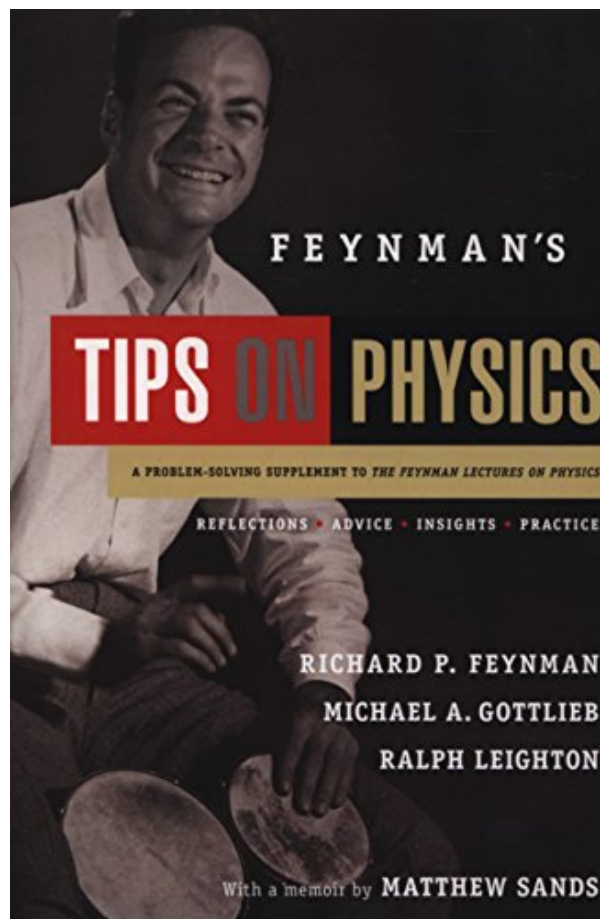
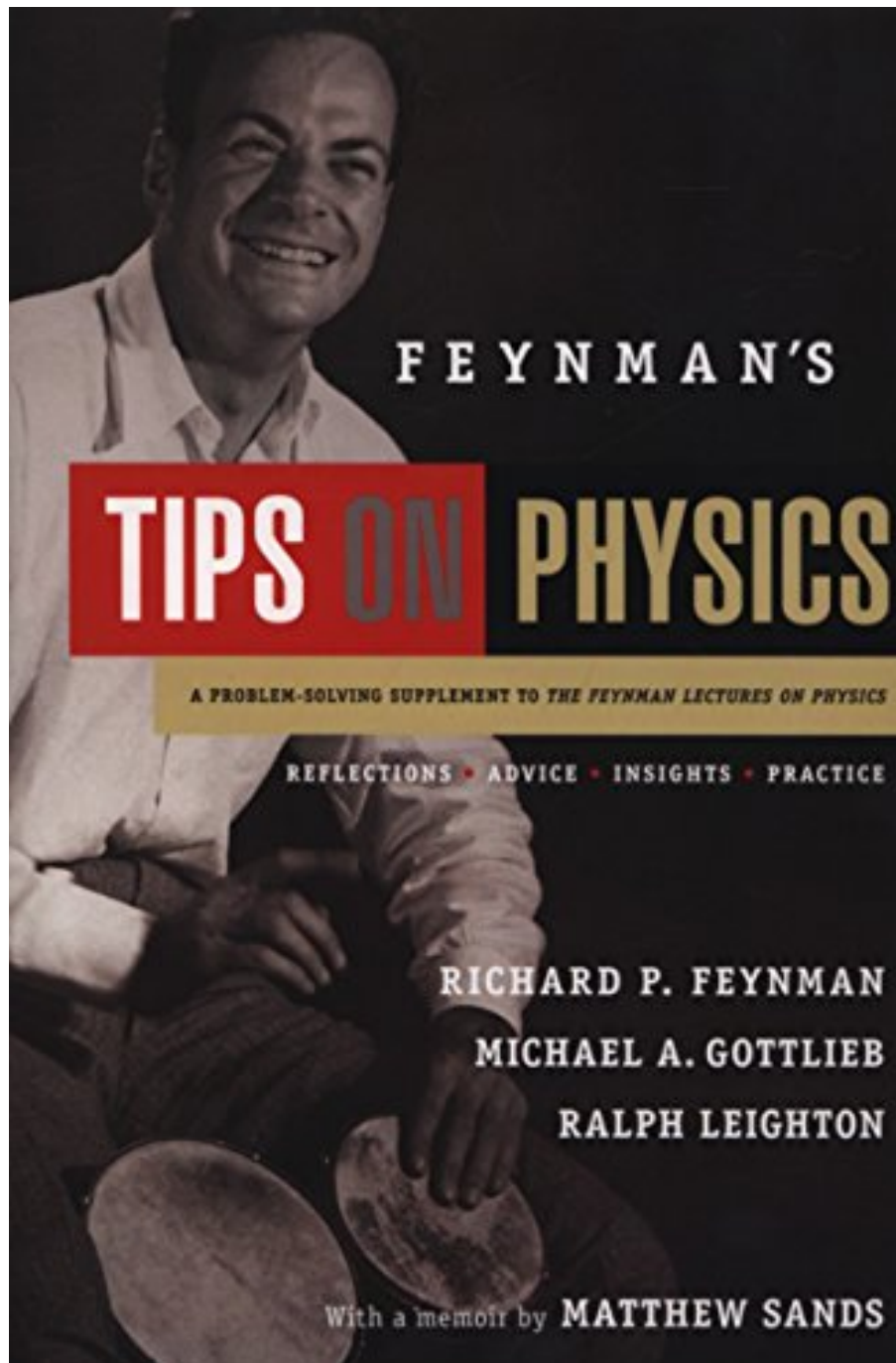


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Review

“Always worthwhile to return to the feet of the master.”

—Bill Gates, Wired

About the Author

Richard P. Feynman was a professor of physics at the California Institute of Technology from 1951 to 1988. He shared the 1965 Nobel Prize in Physics for his work on quantum electrodynamics. Michael A. Gottlieb is a visitor in physics at the California Institute of Technology, and an editor of The Feynman Lectures on Physics and Exercises for the Feynman Lectures on Physics. He administers the Feynman Lectures website, feynmanlectures.info. Ralph Leighton is an author, lateral thinker, and longtime friend of the late Richard Feynman.

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Feynman's Tips on Physics is a delightful collection of Richard P. Feynman's insights and an essential companion to his legendary Feynman Lectures on Physics.

With characteristic flair, insight, and humor, Feynman discusses topics physics students often struggle with and offers valuable tips on addressing them. Included here are three lectures on problem-solving and a lecture on inertial guidance omitted from The Feynman Lectures on Physics. An enlightening memoir by Matthew Sands and oral history interviews with Feynman and his Caltech colleagues provide firsthand accounts of the origins of Feynman's landmark lecture series. Also included are incisive and illuminating exercises originally developed to supplement The Feynman Lectures on Physics, by Robert B. Leighton and Rochus E. Vogt.

Feynman's Tips on Physics was co-authored by Michael A. Gottlieb and Ralph Leighton to provide students, teachers, and enthusiasts alike an opportunity to learn physics from some of its greatest teachers, the creators of The Feynman Lectures on Physics.

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High School & University Freshman level, not much for others

By Flip Tomato

This is a pleasant, conversational book on solving freshman-level physics problems (albeit interesting ones). The goal, of course, is to pick up physical intuition through Feynman's commentary; and for the most part, it does this well. Feynman's wit and charm come through very well, making this a pleasant read for anyone.

However, for those looking for a timeless classic like *The Feynman Lectures on Physics*, one might be a little disappointed. Feynman's insights in this book are genuine and instructive, but they lack the depth of his *Feynman Lectures*. Where the *Feynman Lectures* are volumes to be kept, cherished, and re-read occasionally (certainly during one's undergraduate career) because of their ability to enlighten even after one has learned the subject from traditional means, *Feynman's Tips on Physics* offer very little for those who have mastered introductory physics.

This, of course, is not a fault--it is exactly the goal that the book (and Feynman's original recitation sections) set out to fulfill, but Feynman-aficionados might be slightly disappointed all the same.

To its credit, the introduction by Matt Sands and the closing question and answer transcript were a very nice read and earned this book its place among *The Feynman Lectures* and *Surely You're Joking, Mr. Feynman*.

44 of 48 people found the following review helpful.

Tips, and much more

By Duwayne Anderson

Feynman is one of my favorite authors, along with scientists like Gould and Dawkins. I own and have read most of his books, including his lectures on physics. I particularly like his way of teaching, and the way he puts explanations at the student's level. I've spent too much time around bellicose instructors who mistook for knowledge a vocabulary full of multi-syllable words and long tortured sentences; Feynman is their antithesis.

Ralph Leighton and Michael A. Gottlieb are co-authors of "*Feynman's Tips on Physics*." In addition to editorial work associated with assembling Feynman's lectures, Leighton wrote the Forward, and Gottlieb the Introduction. There's also a Memoir by Matthew Sands describing the origins of the *Feynman Lectures on Physics*. Leighton and Gottlieb hunted for and found the (nearly lost) tapes and photographs and were the ones who negotiated (for about 5 years) with Caltech, the Feynman heirs and Addison-Wesley to arrange the book's execution. They also edited and illustrated the book.

Feynman's lectures in this book had their genesis in his concern, and among scientists and educators at Caltech, regarding the way they were teaching physics. Feynman's lectures in "*Tips on Physics*" came about as a consequence of Feynman giving additional help to students, particularly those who were having trouble keeping up. There's more to the book than Feynman's lectures, however, including Matt Sands memoir, and exercises in chapter 5.

While Gottlieb and Leighton are co-authors of "*Tips*," the part I liked best was purely Feynman. My thanks go to them primarily for making Feynman's teachings more accessible through their historical research into archived material. One of the things I like best about Feynman is his sense of humor. Take, for example, this snippet from page 17:

"...we've found a very serious problem [with grading]: no matter how carefully we select the mean, no matter how patiently we make the analysis, when they [the incoming students at Caltech] get here something happens: it always turns out that approximately half of them are below average!"

This was part of Feynman's explanation to the struggling students, explaining that even though they had been the best and brightest in their high schools, when they all came together half of them were going to be below average for the first time in their lives.

I consider "Tips on Physics" to be a good book, but it's probably the book I like least of all those devoted to Feynman's work. I suppose part of the reason is that the book isn't composed in a particularly logical way, and doesn't flow naturally from foundational concepts to derived topics. That's probably due to the circumstances in which the book was written; it's something of a hodgepodge of lectures given to struggling students, combined with material from the other authors in a form that doesn't flow as well as I'd like, with topics bounce around a bit.

Subjects include vectors (adding, subtracting, line, etc.) and the laws of gravity and motion. There are also solved problems that show how to use these various concepts. The end of the book consists of somewhat lengthy and quite interesting discussions about dynamics, including practical uses of gyroscopes and accelerometers. There's interesting practical material here, including the use of gyroscopes in stabilizing various platforms, and navigational systems using gyroscopes and accelerometers (see figure 4-21 on page 116).

The discussions about gyroscopes were the most interesting to me. These devices represent some of the most amazing mechanical inventions/designs of all time. Combined with accelerometers they form a complete navigational system. Such systems were critically important during the cold war, and were closely guarded secrets, since they were essential for targeting and delivery of nuclear weapons - both by intercontinental ballistic missiles as well as bombers. For example, on page 117 the book explains that an error of just 10^{-5} g results, after integrating twice over an hour, in a positional error of over half a kilometer. Integrating twice for 10 hours increases the error to 50 kilometers.

Even though this isn't Feynman's best work I enjoyed it very much and consider it well worth reading.

10 of 10 people found the following review helpful.

Feynman's moving last scraps

By Claude Lambert

Feynman's fans, and there are so many of us scientists, are grateful to have access to any bit of paper or tape he produced. Why? He was bright and generous and attentive, and he had that little vanity that we cherish because it is human and funny. We love the man the same way that you love the three musketeers when you are young. We love him because he had no respect for authority - in the sense that nobody could intimidate him or tell him what to do - because he always looked for the truth and most of all, because he remained curious all his life. This is the man who was only bored once in his life; he thought that dying was pretty boring.

If you never read any Feynman, do not start here, start with his great (serious stuff) The Feynman Lectures on Physics, boxed set: The New Millennium Edition or the stories he liked to tell (very funny stuff) Surely You're Joking, Mr. Feynman and What Do You Care What Other People Think?

This little book introduces you to people who really liked him, so it is good. There are interesting comments from Feynman, for instance he addresses the feelings of the students who have always been the brightest in their local high school and find out in college that there are brighter students still. For students: no nonsense tips could save your bacon.

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