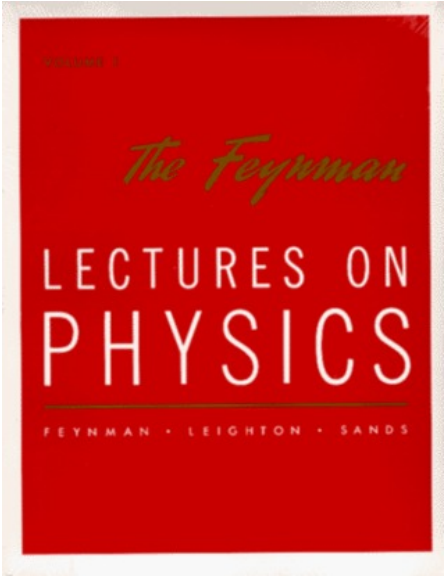

The Feynman Lectures on Physics, 3 Vols

Richard Feynman

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The Feynman Lectures on Physics: Commemorative Issue, Three Volume Set. Feynman's effective classroom style remains intact in these volumes, a valuable work by a remarkable educator. The volumes are an edited version of Richard Feynman's lectures, taped and transcribed specifically for the books. The three volume commemorative issue is either available hardbound and packaged in a specially designed slipcase, or in a paperbound edition. This three volume work was originally designed for a two-year introductory physics course given at the California Institute of Technology--a course designed to take advantage of readers' increasing mathematical prowess and to provide a more comprehensive view of modern-day physics. It is a rigorous undertaking that resulted in a classic reference work for anyone interested in physics.

The Feynman Lectures on Physics, 3 Vols Details

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From Reader Review The Feynman Lectures on Physics, 3 Vols for online ebook

Bogdan Teodorescu ? says

Best physics lectures ever.

Ian says

Embarrasses me that undergrads fifty years ago were learning things I still don't know. Haha.

IamSHERLOCKed says

find answer your questions...math and physic...

Kerem Cankocak says

Bu üç cilt eksiksiz pedagojik bir çal??mad?r. Ayr?ca Feynman’?n 1961-64 y?llar? aras?nda, California Teknoloji Enstitüsünde (Caltech) alanlar?na bak?lmaks?z?n bütün birinci ve ikinci s?n?f ö?rencilerinin ihtiyac? oldu?u lisans fizik derslerinin tarihsel bir kayd?d?r.

Feynman Dersleri’nin I. Cildi, 1961-62 akademik y?l?nda California Teknoloji Enstitüsünde (Caltech) Prof. R.P. Feynman taraf?ndan giri? fizi?i dersi olarak verilmi? olan bir konferanslar dizisine dayanmaktad?r; tüm Caltech birinci ve ikinci s?n?f ö?rencilerinin ald??? iki-y?ll?k giri? dersinin ilk y?l?n? kapsamaktad?r; ikinci y?l? kapsayan benzer bir dizi de1962-63’te bunun pe?inden gelmi?ti. Konferanslar, dört-y?ll?k program içinde, giri? dersinin temelden gözden geçirili?inin ana parças?n? olu?turmaktad?r. Kitap, al???ld?k fizi?e giri? konular?n?n d???na ç?kar. Kuantum fizi?ine giri? niteli?i de ta??yan bu kitap, Feynman’?n dehas?n? ve en zor konular? basite indirme becerisini yans?tmaktad?r.

Fergus Murray says

Although the Feynman Lectures are not always well-pitched for their intended undergraduate audience, the author's explanations of many physics topics are unsurpassed. The writing is lucid, well-structured and authoritative, and only let down a little by Feynman's occasional failure to appreciate the difficulty of the concepts he is setting out.

Jose Moa says

The Feynmans physics course is a non comon undergraduate course because though there are some formulae and math deductions the book is mainly focussed on the explain in deep the fundamental laws and concepts that the in the matemathical expresions,and this are obtaine generally by inductive reasoning,It touches all fundamental subjects,is writen in a very interesting and readable way and sometimes make striking incursions and results that other books dont make,for example from a similar Klein-Gordon relativistic invariant equation for a scalar field,easily obtains by qualitative reasoning the expresión for the Yukava potential for strong interaction scalar meson.A book readable for all with a hig school backgrund and really interested in learn physics,a book that is in physics the twin brother of the renowned book in matemathics by Alexandrov,Kolmogorov and others titled The Matemathics his Methods and Meaning

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Erik says

I used to see this on people's shelves when I was a kid and always wondered what was inside the "three red books." Well the short answer is: everything. It's a great way to learn physics Feynman's way, which means very little problem solving but a lot of deep comprehension and a thematic approach to physics. Meaning: he shows you certain paradigmatic problems which illuminate the physical world and which you can use over and over again. Also he shows you advance peeks at more advanced science, which you will certainly not get in most undergrad physics textbooks. Caveat: Feynman is not so deep philosophically. His take on relativity is strictly for calculational purposes and even in quantum (his specialty) you will find very few deep philosophical insights into the theory besides just: "shut up and calculate!" He seemed to be allergic to mixing philosophy and physics but sometimes it is unavoidable.

Armineh Nouri says

It took me about a year to finish all three volumes, after which I can say I have followed and remembered roughly 20% of Feynman's endless derivations. Nevertheless I have immensely enjoyed every page. I once read an article by an educator who advocated for early teaching of concepts related to infinitesimals and transfinites, exponentiation and concepts related to rate of growth and decline in nature. Her idea was that math and science teachers often follow a chronological order, based on the history of science and the order in which various concepts were discovered and evolved. Instead they should follow a logical order, beginning with "fundamentals" instead of "basics."

To me, Feynman's book wholly represents this idea. The content is organized really well, so it makes it easy to follow the big pictures even if details are getting lost here and there. To anyone who might not have the time to go through all volumes, I highly recommend chapters 1-6, 37-38, and 52 of the first volume, chapters 1-4, 18, and 30 of the second volume, and chapters 1-8 of the third volume.

Jonnie Enloe says

This has got to be the easiest nobel Laureat to read in history. It is enjoyable from start to finish and once you've completed a particular subject, it is just like he says it will be: you don't understand anymore about physics than you did when you started, except you understand more about what you don't know.

Ari says

This was my fallback textbook throughout my physics education at Cornell. They're dense, fascinating, and wonderful.

I acquired my copy as a prize for being the nerdiest student in my year at Ithaca High; the thing that makes it especially meaningful is that my copy is inscribed by Hans Bethe.

Omkar Shetye says

Five stars are not enough for this genius work. If there were to be an apocalypse and only one book were to survive I would wish it were this book. It is one book that has explained most of this universe and it is not subject to any personal opinion but is perfect down to earth science. This is my bible, the story not of how the universe came to be but of how well we have understood it and use it to our benefit, the reason why we are different from other animals; not because God created us from his image but because we are the ones who understand Him the best, maybe even created Him from our imagination.

Elizabeth says

Yay for accessible physics! Enough said.

5dd says

I didn't learn about this wonderful set of lectures until a year or so after starting my graduate work in engineering. As such, I egotistically assumed that I probably already had a firm grasp on practically everything in the three volume set. After all, it's supposed to be a Freshman-level introduction to Physics, right? No. Wrong. Very, very wrong! Feynman's perspective and his intuitive insight to physics was unlike anything I had ever been exposed to. In fact, it is probably unlike anything that has ever occurred because Feynman was one-of-a-kind. As it turned out, I learned far more about physics from Feynman's "introduction" than I had learned in 4-5 years of course work up until that time.

Although the topics discussed in Feynman's "Red Books" are the same as those discussed in the typical three semester series of introductory Physics, each lesson is presented at a much higher conceptual and philosophical level. Remember, this is Feynman we are talking about; one of the greatest physicists of all time. His idea of an introduction to physics presupposes a mastery of at least one year of calculus and a solid semester of differential equations. Thus, any student lacking these prerequisites is encouraged to look elsewhere for an introductory treatment of the subject.

On the other hand, students in possession of these prerequisites won't find a better overview of physics anywhere. Feynman's intuitive understanding and insightful perspective of physics is absolutely incredible. In fact, it may be completely unparalleled. In this three volume set on physics, one is frequently rewarded

with a glimpse into the mind of a true genius. What could be better than that?

I will go so far as to say that a serious student of physics can obtain a complete theoretical education of the subject by studying (and understanding) no more than the following: 1. Feynman's Lectures (a 3 volume set), 2. the Course of Theoretical Physics by Landau and Lifshitz (a 10 volume set), and 3. the numerous mathematical concepts that are referenced by each volume of these two works, which are available from a study of Arfken, or even better, Morse and Feshbach. I am certainly not implying that this is easy, since a true mastery of all of these texts would probably require 5-7 years for a very good student.

Yanni says

Wonderful! A high-quality work for the undergraduate of brilliant quality. First rate stuff, but DO NOT READ if you want to get a good degree these days, since the methods of introducing some of the subjects in these works is quite different to how physics is taught today - particularly the 3rd volume on Quantum Mechanics....
I always love these deep insightful lectures - such a completely original mind. Not always easy to follow... But, these were delivered at Caltech, perhaps the finest place in the world to study physics at the time (apart from in Russia, with Lev Landau), so the standards were pretty tough - and even then, many of the students complained that these were too "off beat" for them to be able to swallow and regurgitate in their final exams. You have been warned! But real wisdom isn's always "easy" and does take time to digest and should not really simple be puked out into an exam paper. Sadly, in today's world, when university lecturers are marked on their performance by the students, such works of genius like this would never arise in our society where everyone has to pass.

Kristopher says

I recognize that few will purchase this, but it is the most incredible set of explanations of the basic principles of physics by the most infectiously charming and lucid teacher of it. It has a great conversational tone and is thereby quite readable. Feynman provides excellent examples and thorough explanation. He also gives his honest opinion (as always) to anything controversial. Just a great read if you are curious about such things.
