Classical Mechanics (3rd Edition)

Synopsis

Good condition with paperback,International ed. printed in Asia. Highlights on the cover,Contents absolutely impeccable.standard shipping ensuring delivery within 15-18 working days.Expedite shipping ensuring delivery within 4-5 working days.

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Customer Reviews

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This book is great for learning the topic for the first time, and even better once you’re looking for a good reference at a later time. It goes very deeply into the physics and philosophy of classical mechanics. The only background needed is vector calculus. The rest should flow naturally. If you don’t understand everything on the first read, as some reviewers mentioned, this is not really a problem. This often happens with advanced textbooks, the authors know so much that they can’t help but write discussions that are of a more general nature. In the case of Goldstein, you should be able to keep on reading without getting lost. This book is amazing, it covers point-particle physics up to continuum mechanics, and builds everything up to a point where you can go on a and study relativity and quantum mechanics with good confidence.I would give this book 6 stars if I could. However, the 3rd edition has turned what used to be an excellent book into some kind of butchery and orgy or less relevant topics. For example, very few people doing research actually care about chaos theory, aside from its coolness. While I learned this stuff from a mathematically rigorous

standpoint decades ago, I never got to use it since then. Also I find it difficult to discuss chaos theory when stochastic processes are ignored. When doing experiments, you always deal with noise which will actually bury a lot of the interesting dynamics. I really don't see the point of altering Goldstein to cover chaos theory when several excellent textbooks on the topic already exist (Arnold, Devaney, Scheinermann).I bought the 3rd edition without knowing about its new slant. At the very least, they should have kept what was in the 2nd edition. Instead, they deleted entire sections which I used to love, such as the derivation of the Lagrangian density for an acoustic field (Appendix E). It's totally gone! I am no longer using the 3rd edition copy, and would consider selling it or getting rid of it. I am much better off with my 2nd edition copy.

This edition of Goldstein treats the standard topics in classical mechanics at the graduate or advanced graduate level, especially with respect to Lagrangian mechanics. Sufficient attention is also devoted to topics outside of standard classical mechanics, such as special relativity. There is also an introduction to Chaos theory. The problem for me, however, is that at no point in reading this book did I feel the magic! There were just no 'wow' moments!

Good but not appropriate for beginners. it is advanced.

Pros1) Well written proofs.2) Explanations are a good exploratory alternative to Classical Dynamics by Merriam and Thornton.ConsNone, just different (maybe a little boring compared to above).

The seller is very nice. However, the content about the classical mechanics may be not better than some newest published book on this subject.

Well, I used this as a graduate Classical Dynamics course as a Physics student. The text is not very clear, very few examples, and sometimes it become too verbose. I do not like.I give it two start because it is still good as a reference.I liked Theoretical Mechanics of Particles and Continua more.

Can anyone write a textbook that actually is a textbook in physics? Why not explain concepts in detail with lots of examples to illustrate? Verbose and hard to read, almost all physics texts assume you know everything to begin with and they just throw complicated equations like candy at a parade. Step through everything like you were really teaching!

This book is the "standard" classical mechanics book for intro graduate courses. It provides a good in-depth coverage of the subject and is mostly easy to follow and understand given the correct mathematical background.

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