

1: Book section_Classical Mechanics 3rd Edition by Goldstein

Classical Mechanics has been the acknowledged standard in advanced classical mechanics courses This classic book enables readers to make connections between classical and modern. physics - an indispensable part of a physicist's education In this new edition.

Spacetime Physics Still the best introduction out there. Springer With a heavy bias towards astrophysics and therefore on a more moderate level formally. Quite strong on intuition. Special Relativity A thorough introductory text. Good discussion of the twin paradox, pole and the barn etc. Plenty of diagrams illustrating Lorentz-transformed coordinates, giving both an algebraic and geometrical insight to SR. Seems to be out of print Abraham Pais: Subtle is the Lord: Special Relativity and its Experimental Foundations Yuan Zhong Zhang Special relativity is so well established that its experimental foundation is often ignored. This book fills the gap and will be of relevance to many discussions in sci. Good on mathematical aspects of gauge theory and topology. Leptons and quarks, translated from Russian by V. Particle physics and introduction to field theory. Relativistic Quantum Mechanics One of the more terse books. The first volume on relativistic quantum mechanics covers the subject in a blinding pages. Very good if you really want to know the subject. Good knowledge of quantum mechanics and special relativity is assumed. A very good introduction to the concepts of particle physics. Good examples, but not a lot of Feynman diagram calculation. Introduction to high energy physics Regarded by many people in the field as the best introductory text at the undergraduate level. Covers basically everything with almost no mathematics. Close, Marten, and Sutton: The Particle Explosion A popular exposition of the history of particle physics with terrific photography. Spaceship Neutrino A good, historical, largely intuitive introduction to particle physics, seen from the neutrino viewpoint. Quantum Field Theory Introductory textbook, concise and practically orientated. Used at many graduate departments as a textbook for the first course in QFT and a bare minimum for experimentalists in high energy physics. Chapters on Feynman diagrams and cross-section calculations particularly well written and useful. Perhaps most suitable for graduate students who already know some basics of QFT. Unfortunately, this book does not conform to Bjorken-Drell metric. Superstring Theory 2 vols Although these two volumes do not touch the important new developments in string theories they are still the best texts for the basics. To keep up with this fast developing subject it is necessary to download the papers and reviews as hep-th e-prints. A Theory of Everything ed P. This also predates the new developments which revolutionised string theory after Inward Bound This can be regarded as a companion volume to his biography of Einstein see special relativity section. It covers the history of particle physics through the twentieth century but is best for the earlier half. The Second Creation Another history of particle physics in the twentieth century. This one is especially good on the development of the standard model.. Full of personal stories taken from numerous interviews, it is difficult to put down. It describes what the Higgs is and gives some background to the subject of particle physics. It also gives an account of some more general physics history. General Relativity Meisner, Thorne and Wheeler: It has two tracks for different levels. A famous work in the subject whose main strength is probably its various asides, historical and otherwise. While it has much interesting reading, it is not a book to learn relativity from: Space, Time, and Gravity: A good non-technical introduction, with a nice mix of mathematical rigor and comprehensible physics. A First Course in General Relativity. A readable and useful book, to a point. The edition, at least, unfortunately has a tangled approach to its Lambda index notation that is wrong in places. Schutz goes to great lengths to convince the reader of the usefulness of one-forms, but is clearly unaware that everything he does with them can be done in shorter time using vectors alone. Beware the show-stopping typos in the Riemann components for the Schwarzschild metric on page The discussion about Riemann tensor signs on page is also wrong, and will give you wrong results if you apply it. Gravitation and Cosmology A good book that takes a somewhat different approach to the subject. It strikes just the right balance, in my opinion, between mathematical rigor and physical intuition. It has great mathematics appendices for those who care about proving theorems carefully, and a good introduction to the problems behind quantum gravity although not to their solutions. Putting General Relativity to the Test Non-technical account of the

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The second edition may be the only physics book I read from cover to cover and did most problems. I started calling Goldstein "the good book" when I was talking to colleagues. I remember I was not alone.

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7: Herbert Goldstein - Wikipedia

For 30 years, this book has been the acknowledged standard in advanced classical mechanics courses. This classic book enables readers to make connections between classical and modern physics -- an indispensable part of a physicist's education.

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Best Classical Mechanics Textbook well actually I really only need enough to be prepared for the physics GRE. So I'm not sure how in depth Goldstein's book is.

9: Classical Mechanics (Goldstein book) - Wikipedia

Herbert Goldstein (June 26, - January 12,) was an American physicist and the author of the standard graduate textbook Classical Mechanics.. He received a B.S. from City College of New York in and a Ph.D. from Massachusetts Institute of Technology in

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