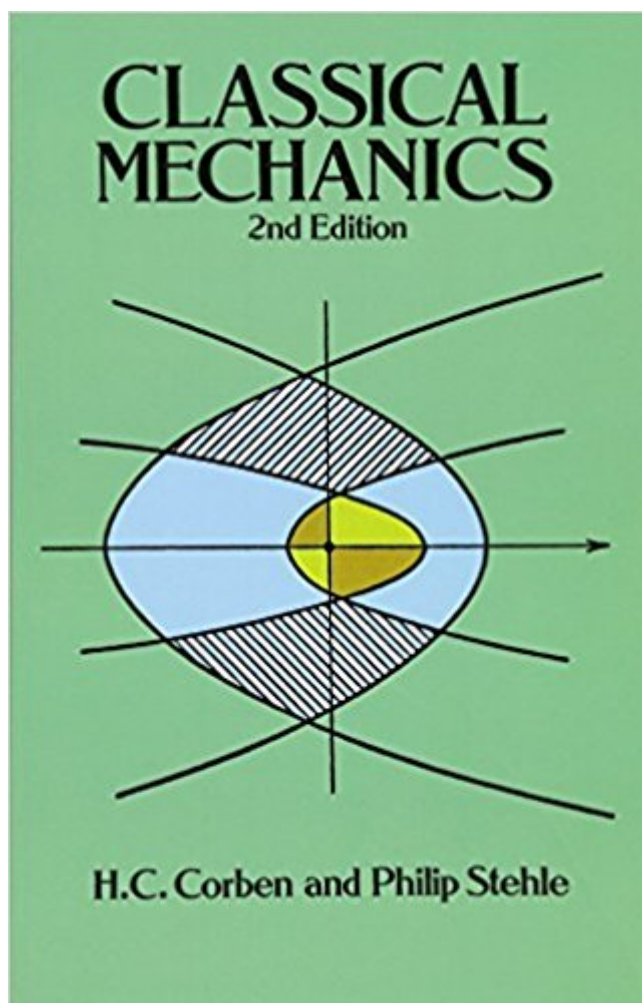


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Classical Mechanics: 2nd Edition (Dover Books On Physics)



Synopsis

Classical mechanics is the study of the motion of particles and rigid bodies under the influence of given forces. It applies to the enormous range of motions between the atomic scale, where quantum effects dominate, and the cosmological scale, where general relativity provides the framework. Coupled with classical electromagnetic theory it provides the basis for sophisticated technologies such as plasma physics, accelerator design, space technology, and more. In this edition, the authors have included the fundamental subjects of Lagrangian mechanics, Hamiltonian mechanics, rigid-body motion, action-angle variables, perturbation theory, and motion with speeds approaching that of light, showing how these theories can be applied to a variety of problems. They treat central motion, the motion of planets and satellites, in detail. They also develop the theory of small vibrations governing resonant systems of all kinds, analyze the motion of particles in high energy accelerators and describe the motion of spinning systems, important for space technology. Nonstandard topics like the Navier-Stokes equation and the inverted pendulum are included. A number of exercises are provided and most chapters contain references to relevant books and other literature.

Book Information

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Customer Reviews

This book is a bit easier than Goldstein, whether that is good or bad depends on your personal preferences. A fruitful, though laborious approach, would be to first read Corben & Stehle and then Goldstein. A deficiency is that in parts it becomes too abstract and short of concrete examples that

are fully worked out. A problem with the Kindle version is that some of the mathematical notation has become mangled.

Perfect, thank you :)

This is an advanced senior or graduate course text. Meticulous and imaginative. We used this text in the 60s and I wanted a fresher copy.

its basically the same as the new version, but its \$10!!!!And it looks old as dirt with the old tea stain look, and fits in the palm of your hand because its so small. definitely worth getting this and the pdf of the real book

It's a great reference for those studying Mechanics.

I had to understand Quantum mechanics, and more into depth statistical mechanics so I could understand condensed matter physics and particle physics, it was a most strenuous book and job to derive some of the equations of mechanics though.

what can i say = classical

Corben and Stehle's textbook (originally published by John Wiley and Sons) was for about 30 years one of the three standard textbooks used in graduate level physics courses on Classical Mechanics. The other two being "Classical Mechanics" by Goldstein and "Mechanics" by Landau and Lifshitz. Corben and Stehle's and Goldstein's books were first published about 1950. All three had their strengths and weaknesses, but Goldstein's was the most widely used in graduate schools. However, Corben and Stehle's book nicely complimented Goldstein's book, especially where the first edition of Goldstein's book was weak or in error. All the fundamental topics are thoroughly covered in Corben and Stehle's book (except for Lagrange Multipliers in Lagrangian Mechanics and the Routhian). The Dover edition on is a bargain on a classic!

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