

Primary Texts for Classical Mechanics

- John R. Taylor *Classical Mechanics*, University Science Books, 2005. A new text on intermediate classical mechanics. It has very extensive explanations, perhaps sometimes even too extensive. Problems are formulated in a way directing students into solutions.
- Stephen T. Thornton and Jerry B Marion *Classical Dynamics*, Thomson-Brooks/Cole, 5th edition, 2004. This is a “classic” classical mechanics book at the level of this course. Although some people believe that recent editions are not as good as older ones, it is still a very good book. However, the problems are not well formulated, occasionally contain errors in the formulation, and sometimes do not follow directly from the subjects discussed in a given chapter.
- Keith R. Symon *Mechanics*, Addison-Wesley, 3rd edition, 1971. Another classic book. Somewhat older but still excellent.

Advanced Texts for Classical Mechanics

- H. Goldstein, C. Poole, J. Safko *Classical Mechanics*, Addison-Wesely, 3rd edition, 2002. The most recognized authoritative text on classical mechanics at the level above the present course.

Texts covering Physics Fundamentals Background

- D. Halliday, R. Resnick, and J. Walker (or K.S. Krane), *Fundamentals of Physics*, Wiley 1993 or later. Classic book for PHYS 207.

Texts covering Mathematical Background

- G.B. Thomas and R.L. Finney *Calculus and Analytic Geometry*, Addison-Wesley 1998 or later. A basic calculus text.
- M.L. Boas *Mathematical Methods in the Physical Sciences*, Wiley 1983. This is the best book filling the gap between basic calculus and the needs of undergraduate physics courses.
- B. Kolman and D.R. Hill *Elementary Linear Algebra*, Prentice Hall 2000. This is a good text for 300-level linear algebra.
- W.E. Boyce and R.C. DiPrima *Elementary Differential Equations and Boundary Value Problems*, Wiley 1997. This is a good text to learn differential equations at 300-level.