

Reference Texts for Phys 505 Autumn 2010 (in likely order of usefulness)

Mechanics:

Classical Mechanics (3rd Edition)

by [Herbert Goldstein](#), [Charles P. Poole](#), [Charles P., Jr. Poole](#), [John L. Safko](#)

Prentice Hall; 3rd edition (January 15, 2002); **ISBN:** 0201657023

Mechanics

by [Lev Davidovich Landau](#), [L. D. Landau](#), [E. M. Lifshitz](#)

Butterworth-Heinemann; 3rd edition (September 1976); **ISBN:** 0750628960

The Variational Principles of Mechanics

by [Cornelius Lanczos](#)

Dover Pubns; 4th edition (March 1986); **ISBN:** 0486650677

A Treatise on the Analytical Dynamics of Particles and Rigid Bodies

by [E. T. Whittaker](#) (Author)

Cambridge University Press; 4th edition (March 1989); **ISBN:** 0521358833

Classical Mechanics: A Modern Perspective

by [Vernon Barger](#), [Martin Olsson](#) (Contributor)

McGraw-Hill Science/Engineering/Math; 2nd edition (December 1, 1994); **ASIN:** 0070037345

Mathematical Methods of Classical Mechanics (Graduate Texts in Mathematics, No 60)

by [V. I. Arnold](#), [A. Weinstein](#), [K. Vogtmann](#)

Springer Verlag; 2nd edition (August 1989); **ISBN:** 0387968903

Chaos:

An Introduction to Chaotic Dynamical Systems, 2nd Edition

by [Robert L. Devaney](#)

Perseus Books; 2nd edition (January 2003); **ISBN:** 0813340853

Nonlinear Dynamics and Chaos: With Applications to Physics, Biology, Chemistry and Engineering

by [Steven H. Strogatz](#)

Perseus Books Group; 1st edition (January 15, 2001); **ISBN:** 0738204536

Chaos and Nonlinear Dynamics: An Introduction for Scientists and Engineers

by [Robert C. Hilborn](#)

Oxford University Press; 2nd edition (October 1, 2000); **ISBN:** 0198507232

Mathematical Methods:

Mathematical Methods of Physics

by [Jon Mathews](#), [Robert L. Walker](#)

Addison Wesley; 2 edition (January 1, 1971); **ISBN:** 0805370021