

- Instructor: Joel Koplik
Steinman Hall, CCNY, room 1M-19
phone: 212 650 8162, e-mail: koplik@sci.ccny.cuny.edu
- Outline : Systems of point particles
Lagrange's equations
Two-body central force problems
Rotation kinematics
Rigid body motion
Small oscillations
Special relativity
Hamiltonian mechanics
Canonical transformations
Action-angle variables
Perturbation theory
Continuous systems
- Textbook: H. Goldstein, *et al.*, *Classical Mechanics*, 3rd ed. (Addison-Wesley, 2002)
- Other books: L. D. Landau and E. M. Lifshitz, *Mechanics*
F. Scheck, *Mechanics*
J. V. Jose and E. J. Salatan, *Classical Dynamics*
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- Course web site: http://www-levich.engr.ccny.cuny.edu/courses/analytical_dynamics/
- Grading: weekly problems sets : 1/3 of grade
two in-class exams : 1/3 of grade
final : 1/3 of grade