MASSACHVSETTS INSTITVTE OF TECHNOLOGY
6.946J, 8.351J, 12.620J

Classical Mechanics: A Computational Approach

Problem Set 11—Fall 2020

Issued: 13 November 2020 $\hspace{4cm}$ Due: 4 December 2020

Note: Project 5 is also due on Friday, 4 December 2020

Reading: SICM2 Chapter 5 Section 5.4 through Chapter 6 Section 6.2

Introduction

The reading this week is a long story about machinery. Mixed-variable generating functions, Hamilton-Jacobi theory, and the canonical transformations that result from time evolution are needed to support our goal of understanding phase-space structure using perturbation theory.

Exercises

- Exercise 5.12: Construction of Generating Functions $\hspace{2cm}$ SICM2 page 393

- Exercise 6.4: Uniform Acceleration $\hspace{3cm}$ SICM2 page 425

This is the last problem set!
:-)
Please get all your work in so we can give you grades!
Remember: The problem sets and projects are the only requirements for this class.