Project 2

- Project description:
  - ◇ Pick up a pendulum model from any section between 10 and 27 except 21 in Chapter 12.
  - ◇ Use the routine **ode45.m** to solve your problem.
  - ◇ You will earn up to 10 extra points if you choose to work on the more complicated models, i.e., sections 12, 15, 18, 19, 20, 24.
  - ◇ Follow the *Project Format* closely.
  - ◇ The physics involved may be beyond your comprehension. Try to understand at least what each of the dependent variables stand for. For example, what do the four variable y_1, y_2, y_3 and y_4 stand for in our double pendulum model stand for? Predict the behavior of the pendulum after initializing these values. Play with the pendulum by altering these values.
- Due date:
  - ◇ No later than 4:30pm, Thursday, November 11.
- Report:
  - ◇ All projects need to by typeset. All graphs must be plotted by computers.
  - ◇ Hand-written report or drawings will *not* be graded.
- Extra remarks:
  - ◇ The next project (Project 3) is due on Thursday, December 2. We shall be working on Chapter 14. Start earlier. You will not have any extra time.
  - ◇ No final exam will be given.