Problem 9A.1

Problem 9A.5

Problem 10B.2

Term Project
You have three weeks to complete this part of HW#4 (due Fri. Mar. 14). Give some thought and do some reading in the literature if necessary on your term transport project. One possibility is to consult with your research advisor to decide on a project that would aid in your research. Alternatively, you could choose a project that you are just interested in (pure selfish gratification!). You should address these aspects in the work you submit in two weeks.

a) Short description of the problem with a diagram
b) State assumptions (velocity components and/or temperature and the coordinate directions they depend on, boundary conditions, assumptions on fluid properties, etc.
c) Governing equations for the problem
d) Strategy for solution of the governing equations.

Due Fri. 29 Feb., 2008.