

**2.094**  
**FINITE ELEMENT ANALYSIS OF SOLIDS AND FLUIDS**  
**SPRING 2008**

**Homework 8**

Instructor: Prof. K. J. Bathe  
TA: Do-Nyun Kim

Assigned: 04/10/2008  
Due: 04/17/2008

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**Problem 1 (20 points):**

Consider exercise 6.27 in the textbook, page 537 and develop the governing finite element equations for the TL formulation. Use a single two-node element to represent the structure.

**Problem 2 (20 points):**

Exercise 6.39 in the textbook, page 560.