MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering
2.001 Mechanics and Materials I
Fall 2006

Problem Set 10

Distributed: Wednesday, November 22, 2006
Due: Wednesday, November 29, 2006

Problem 1: We're almost (but not quite) going to do Hibbeler's problem 6-50. Considering the structure that Hibbeler describes, loaded as described in the problem, find a) the bending stress σ_{xx} at points A and B and b) the radius of curvature of the beam. (You can skip the sketches.)

Problem 2: Hibbeler 6-89

Problem 3: Hibbeler 6-119