MASSACHUSETTS INSTITUTE OF TECHNOLOGY
13.10J/1.573J
Problem Set 9

Assigned : October 30, 2002
Due : November 6, 2002

- From your book : 11.50, 11.51, 11.54 and supplements 1

1. (Supplement 1)

   (a) A cross section of a slit square tube of constant thickness t is shown in Figure 1. Derive the distance e from the corner of the cross section to the shear center S.

   (b) If load P is not applied at S but at point A, find the twisting moment about the x axis (which is normal to the plane of the figure).

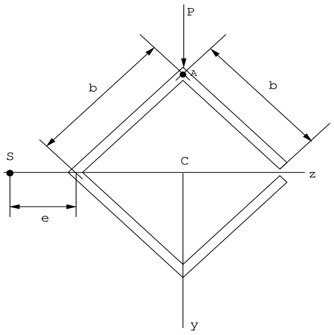

Figure 1: A diagram for problem 1