

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DEPARTMENT OF OCEAN ENGINEERING

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

13.10J/1.573J Structural Mechanics

Fall 2001

Problem Set 13

Assigned: Dec 5, 2001

OPTIONAL

1. 17.30

2. 17.37

3. Find critical load P for a column fixed at the bottom and free at the top and consisting of two prismatic portions with moments of inertia I_1 AND I_2 as shown in figure. Young's modulus of elasticity is E for the entire column. Work with differential equations.

