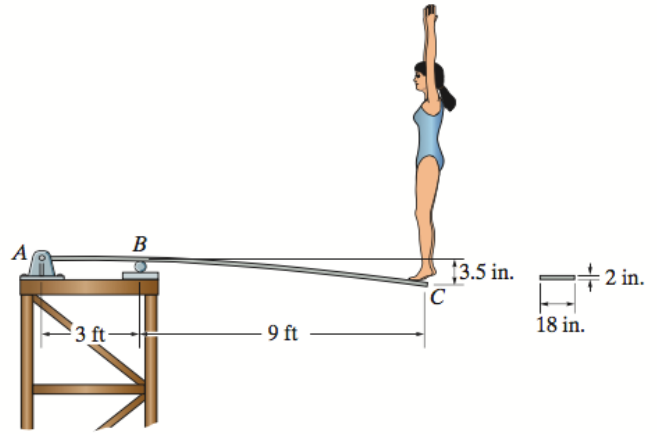
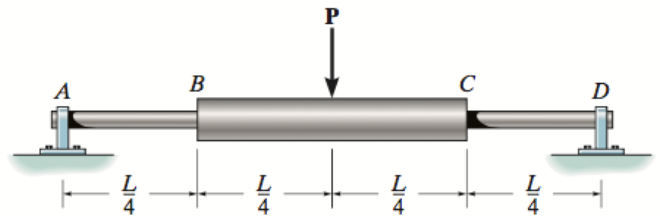


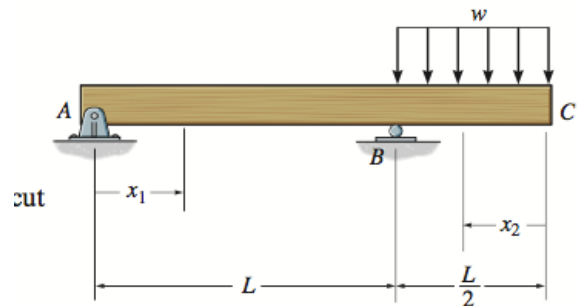
12-3. When the diver stands at end C of the diving board, it deflects downward 3.5 in. Determine the weight of the diver. The board is made of material having a modulus of elasticity of $E = 1.5(10^3)$ ksi.



12-14. The simply supported shaft has a moment of inertia of $2I$ for region BC and a moment of inertia I for regions AB and CD . Determine the maximum deflection of the beam due to the load P .



12-21. Determine the elastic curve in terms of the x and y coordinates and the deflection of end C of the overhang beam. EI is constant.



12-26. Determine the equations of the elastic curve using the coordinates x_1 and x_2 , and specify the slope and deflection at B . EI is constant.

