



FIGURE P10-4

Problem 10-27

- †10-27 Figure P10-4 shows a fourbar mechanism. The crank is 1.00 in wide by 0.5 in thick. The coupler and rocker are both 0.75 in wide by 0.5 in thick. All links are made from steel. The ends of the links have a full radius equal to one half of the link width. The pivot pins all have a diameter of 0.25 in. Find the moment of inertia of the crank and the rocker about their fixed pivots and the moment of inertia of the coupler about its CG.

† These problems are suited to solution using *Mathcad*, *Matlab*, or *TKSolver* equation solver programs.