

5-5 Determine the mass m that can be supported by the block system shown in Fig. 5-5 if the force F applied to the cable is 500 N.

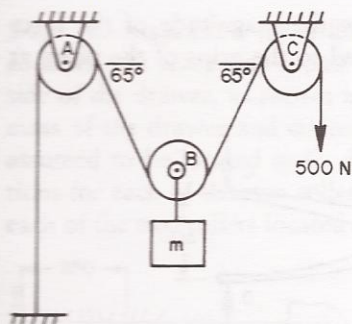


FIGURE P5-5

5-6 If the magnitude of F_A , as shown in Fig. P5-6, is 5000 N, determine the magnitude of F .

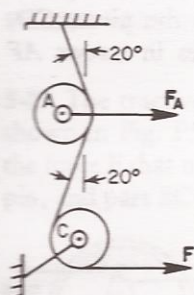


FIGURE P5-6

5-7 Determine the magnitude and direction of the force that cable AB exerts on the pin at A of the pulley shown in Fig. P5-7. The magnitude of the force F is 600 N. The 200 kg block does not slide.

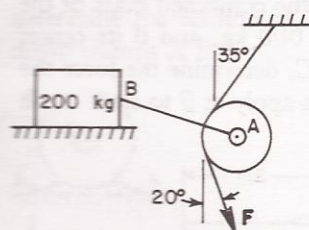


FIGURE P5-7

5-8 If the force F shown in Fig. P5-8 is 700 N, determine the magnitude and direction of the force that cable AB exerts on the pulley. The 500 kg mass does not slide.

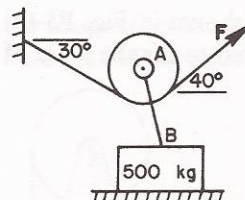


FIGURE P5-8

5-9 What force F is required to lift the 80 kg mass shown in Fig. P5-9?

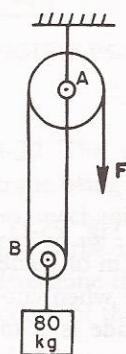


FIGURE P5-9

5-10 If the force F , shown in Fig. P5-10, is 1200 N, determine the tension in cable AB. The 500 kg block does not slide.

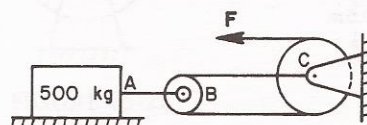


FIGURE P5-10

5-11 For the pulley system shown in Fig. P5-11, determine the tension P .

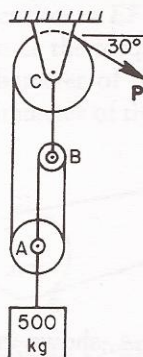


FIGURE P5-11