

2-31. The 40-kg block B has an initial downward velocity $(v_B)_1 \sim N(1, 0.1^2)$ m/s. Block A is 50-kg and the mass of the pulleys and cords is negligible. If the coefficient of kinetic friction between the horizontal plane and block A is $\mu_k \sim N(0.3, 0.03^2)$, determine the velocity of A when $t = 5$ s. Assume $(v_B)_1$ and μ_k are independent.

Solution: $(v_A)_2 \sim N(6.09, 1.24^2)$ m/s \leftarrow .

