

4-11. The 5-kg ball has a horizontal initial velocity $v_0 \sim N(20, 2^2)$ m/s. If the coefficient of restitution between the ball and the 20-kg block is $e = 0.9$. Determine the velocity of the block just after the ball hits it.

Solution: $(v_B)_2 \sim N(7.6, 0.76^2)$ m/s

