

3-5. The block C is moving downward with a normally distributed velocity $v_C \sim N(2, 0.2^2)$ m/s.

If $\theta = 45^\circ$, determine the angular velocity of bar AB at the instant shown. Assume $L_{AB} = 0.5$ m and $L_{BC} = 0.8$ m.

Solution: $\omega_{AB} \sim N(4, 0.4^2)$ rad/s.

