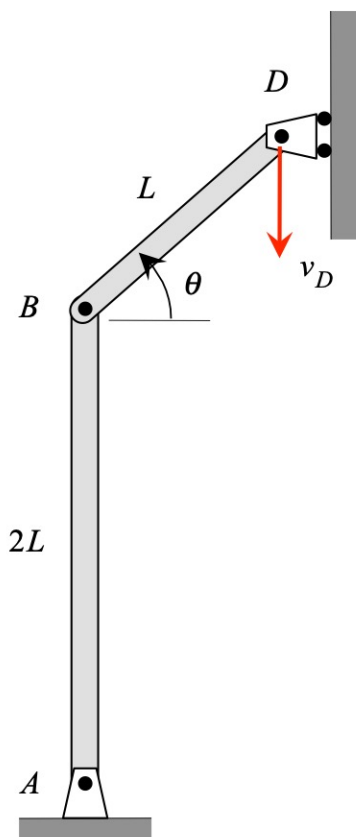


Homework H.2.D

Given: Roller D of the mechanism shown is moving downward along a straight vertical surface with a constant speed of v_D . At the instant shown, link AB is vertical.

Find: For this position:

- Determine the angular velocities of links AB and BD. Write your answers as vectors.
- Determine the angular accelerations of links AB and BD. Write your answers as vectors.



Use the following parameters in your analysis: $\theta = 53.13^\circ$, $L = 2$ m and $v_D = 15$ m/s.