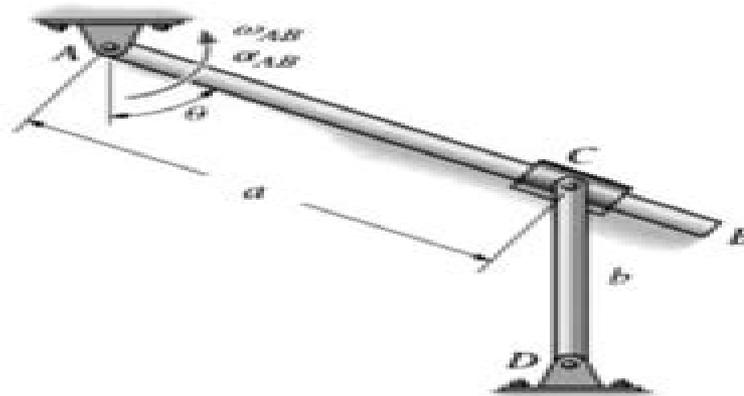


*Students have to submit this exam question and the answer together*

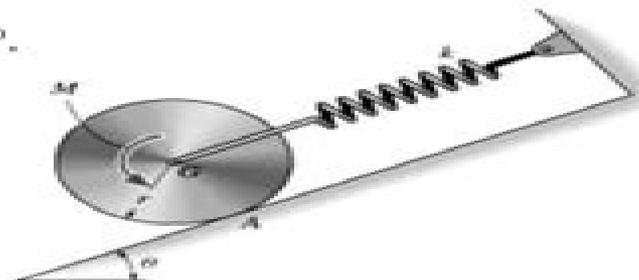
**Problem 1.** At the instant shown, rod  $AB$  has angular velocity  $\omega_{AB}$  and angular acceleration  $\alpha_{AB}$ . Determine the angular velocity and angular acceleration of rod  $CD$  at this instant. The collar at  $C$  is pin-connected to  $CD$  and slides over  $AB$ .

Given:  $\omega_{AB} = 3 \text{ rad/s}$ ,  $\alpha_{AB} = 5 \text{ rad/s}^2$ ,  $\theta = 60^\circ$ ,  $a = 0.75 \text{ m}$ ,  $b = 0.5 \text{ m}$ .



**Problem 2.** The disk of mass  $m_d$  and radius  $r$  is originally at rest, and the spring holds it in equilibrium. A couple moment  $M$  is then applied to the disk as shown. Determine its angular velocity at the instant its mass center  $G$  has moved distance  $d$  down along the inclined plane. The disk rolls without slipping.

Given:  $m_d = 20 \text{ kg}$ ,  $M = 30 \text{ Nm}$ ,  $r = 0.2 \text{ m}$ ,  $\theta = 30^\circ$ ,  
 $d = 0.8 \text{ m}$  and stiffness  $k = 150 \text{ N/m}$ .



# Engineering Dynamics Final Exam

**JL Elias**



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