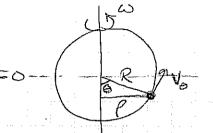

Example: Bead on a spinning wire loop



e=Rsin O To the radio of the peth of the seed at any hostest

anyle of place of hosp with reject to x, y place

$$\omega = \dot{\rho} \equiv caust + t$$
.

V has two components: Vo is toget to the wire in O direction  $\vec{V} = (V_0, V_0)$  Vo is perp to plane of how in O direction

$$\nabla = \langle V_{\Theta}, V_{\Phi} \rangle$$

$$I = M_0 U = -m_0 R_{C-A}$$

Note that \$ = 00 To constant and I not a generalized court.

$$e = \theta$$
  $\frac{\partial L}{\partial \theta} = \frac{d}{d\epsilon} \cdot \frac{\partial L}{\partial \theta}$ 

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50, 
$$MR^2\omega^2 S.LOCOSO - MSS.LOCOSO - JSLOCOSO = Ö$$

where will be bend be at rest his guilibrium?

$$\dot{\theta} = 0$$
 and  $\dot{\theta} = 0$  so set  $\dot{\theta}_0 = 0$  and fun it will

Suppose 
$$\omega = |rev = 2\pi$$
  
 $Q = 1/2$   
 $Q = 9.8$