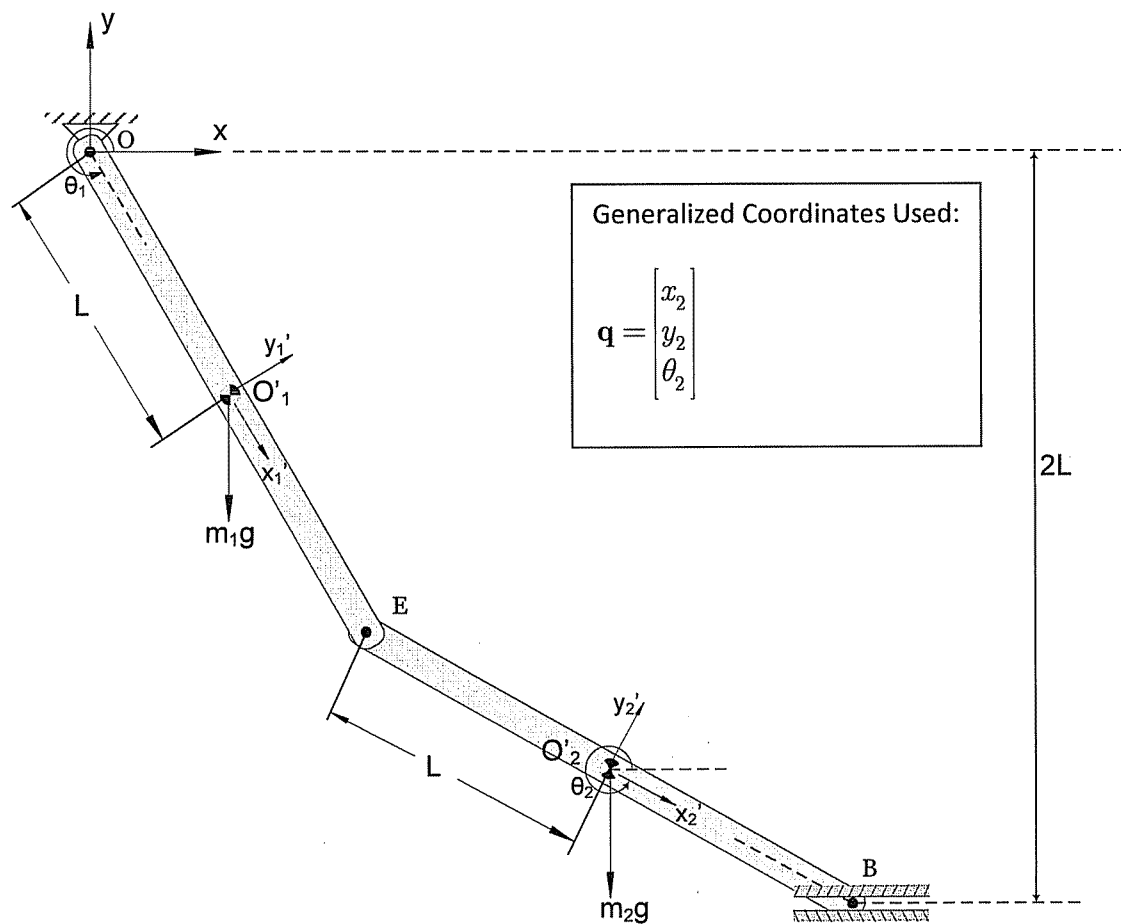


Example: Using Absolute (Cartesian) Generalized Coordinates



$$\mathbf{r}_B = \begin{bmatrix} x_2 \\ y_2 \end{bmatrix} + \begin{bmatrix} \cos \theta_2 & -\sin \theta_2 \\ \sin \theta_2 & \cos \theta_2 \end{bmatrix} \begin{bmatrix} L \\ 0 \end{bmatrix}$$

$$\Rightarrow \mathbf{r}_B = \begin{bmatrix} x_2 + L \cos \theta_2 \\ y_2 + L \sin \theta_2 \end{bmatrix}$$

