

DYNAMIC ANALYSIS OF SLIDER-CRANK MECHANISMS

Velocity of the connecting rod:

From the geometry of the figure, we find that

$$CQ = l \sin \phi = r \sin \theta \quad \text{Hence } \phi = \frac{r}{l} \times \sin \theta = \frac{\sin \theta}{n}$$

Differentiating both sides with respect to time t,

$$\cos \phi \times \frac{d\phi}{dt} = \frac{\cos \theta}{n} \times \frac{d\theta}{dt} = \frac{\cos \theta}{n} \times \omega$$

Since the angular velocity of the connecting rod PC is same as the angular velocity of point P with respect to C and is equal to $d\phi/dt$, therefore angular velocity of the connecting rod

$$\omega_{PC} = \frac{d\phi}{dt} = \frac{\cos \theta}{n} \times \frac{\omega}{\cos \phi} = \frac{\omega}{n} \times \frac{\cos \theta}{\cos \phi}$$

We know that, $\cos \phi = (1 - \sin^2 \phi)^{\frac{1}{2}} = \left(1 - \frac{\sin^2 \theta}{n^2}\right)^{\frac{1}{2}}$ i.e., $\omega_p = \frac{\omega \cos \theta}{(n^2 - \sin^2 \theta)^{1/2}}$

Mechanism Analysis

J Elliott



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