

KINEMATICS OF MACHINES

VELOCITY ANALYSIS

In a four link mechanism, the dimension of the links are as under, $AB = 50 \text{ mm}$, $BC = 58 \text{ mm}$, $CD = 55 \text{ mm}$ and $AD = 100 \text{ mm}$. At the instant when $\angle DAB = 60^\circ$ degree, the link AD has an angular velocity of 10.5 rad/sec in the counter clockwise direction. Determine:

1. Velocity of Point C.
2. Velocity of Point E on the link BC, when $BE = 40 \text{ mm}$.
3. The angular velocities of the link BC and CD.
4. The velocity of an offset point "F" in link BC if $BF = 45 \text{ mm}$, $CF = 30 \text{ mm}$ and BCF is read clockwise.
5. The velocity of an offset point "G" on the link CD if $CG = 24 \text{ mm}$, $DG = 44 \text{ mm}$ and DCG is read clockwise.

Scale: $0.525 \text{ m/s} = 50 \text{ mm}$

mps to length: $1 \text{ m/s} = 85.24 \text{ mm}$

Length to mps: $1 \text{ mm} = 0.0105 \text{ m/s}$

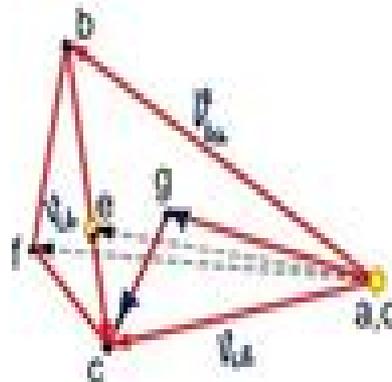
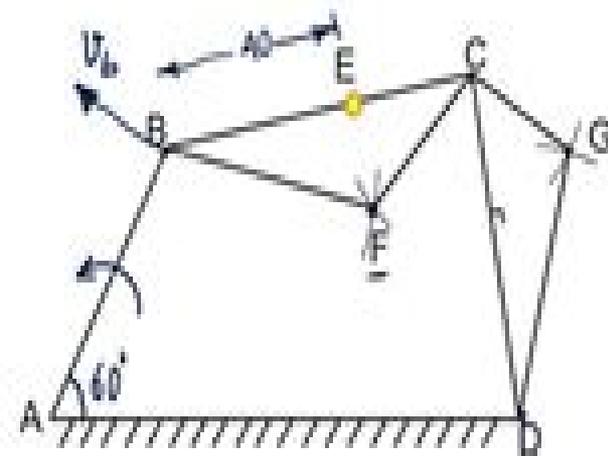
$$v = \omega r$$

$$\omega = \frac{v}{r}$$

$$\omega_{AD} = 10.5 \text{ rad/sec}, v_{Bd} = \omega_{AD} \cdot r_{AB}$$

$$= 10.5 \times 0.05$$

$$= 0.525 \text{ m/s}$$



1. Velocity of Point C $v_c = \omega \cdot r = 38 \text{ mm}$
 $= (38 \times 0.0105) \text{ m/s}$
 $= 0.4 \text{ m/s}$

2. Velocity of Point E on the link BC, when $BE = 40 \text{ mm}$

$$\frac{v_e}{v_c} = \frac{BE}{BC} \Rightarrow v_e = \frac{40}{58} \times 32 = 19.39 \text{ mm}$$

$$v_e = \omega \cdot r = 39 \text{ mm} = (39 \times 0.0105) \text{ m/s}$$

$$= 0.41 \text{ m/s}$$

3. The angular velocities of the link BC and CD

$$\omega_{BC} = \frac{v_{bc}}{BC} = \frac{32 \times 0.0105}{0.066} = 5.09 \text{ rad/sec}$$

$$\omega_{CD} = \frac{v_{cd}}{CD} = \frac{38 \times 0.0105}{0.056} = 7.125 \text{ rad/sec}$$

4. The velocity of an offset point "F"

$$v_f = f \cdot \omega = 48 \text{ mm} = 48 \times 0.0105 = 0.504 \text{ m/s}$$

5. The velocity of an offset point "G"

$$v_g = g \cdot \omega = 30 \text{ mm} = 30 \times 0.0105 = 0.315 \text{ m/s}$$

Kinematics Analysis Of Mechanisms Methods And

SJ Ball



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