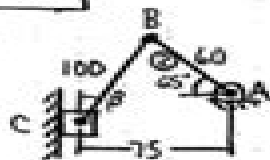


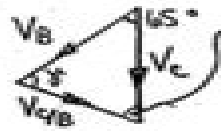
6-47



$$75 = 60 \cos 65 + 100 \sin \beta$$

$$\beta = \sin^{-1} \left[\frac{75 - 60 \cos 65}{100} \right] = 29.76^\circ$$

$$V_C = V_B + V_{B/C} \quad V_C = 2 \text{ m/s} \uparrow$$



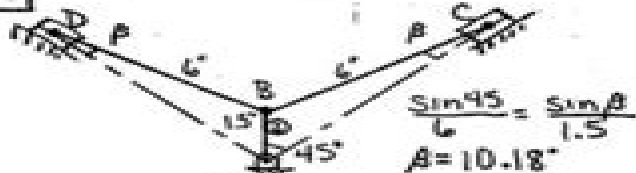
$$90 - \beta = 60.24^\circ$$

$$8 = 180 - 65 + 60.24 = 54.76^\circ$$

$$\frac{V_B}{\sin 60.24} = \frac{V_C}{\sin 54.76} \Rightarrow V_B = 2.13 \text{ m/s} \swarrow 25^\circ$$

$$\omega_2 = \frac{2.13}{60} = .035 \text{ rad/s, CCW}$$

6-49



$$\frac{\sin 45}{6} = \frac{\sin \beta}{1.5} \quad \beta = 10.18^\circ$$

$$\omega_2 = 2000 \text{ rpm} \left(\frac{\pi}{30} \right) = 209.44 \text{ rad/s, CW}$$

$$V_B = (209.44)(1.5) = 314.16 \text{ m/s} \rightarrow$$

$$V_C = V_B + V_{C/B}$$



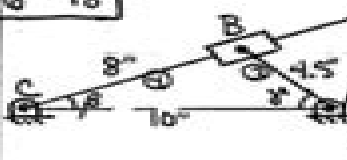
$$\frac{V_B}{\sin 79.82} = \frac{V_C}{\sin 55.18}$$

$$V_C = 262.0 \text{ m/s} \swarrow 45^\circ$$

$$V_B = 262.0 \text{ m/s} \swarrow 45^\circ$$

$$\text{Vol Flow} = (262 \text{ m/s}) \left[\frac{\pi}{4} (1.0^2) \right] = 205.81 \text{ m}^3/\text{s}$$

6-48



$$\beta = \cos^{-1} \left[\frac{4.5^2 + 10^2 - 8^2}{2(4.5)(10)} \right] = 51.3^\circ$$

$$\beta = \cos^{-1} \left[\frac{10^2 + 8^2 - 4.5^2}{2(10)(8)} \right] = 26.0^\circ$$

$$V_{B2} = V_{B1} + V_{B2/B1}$$

$$V_{B2} = 1 \text{ rad/s} (4.5) = 4.5 \text{ m/s} \swarrow 38.7^\circ$$



$$\frac{V_{B2/B1}}{\sin [180 - (38.7 + 64)]} = \frac{V_{B2}}{\sin 90}$$

$$V_{B1} V_{B2} = 4.39 \text{ m/s} \swarrow 26.0^\circ$$

6-50



$$AD = \sqrt{.2^2 + .3^2} = .421 \text{ m}$$

$$\theta_1 = \tan^{-1} \left(\frac{.2}{.3} \right) = 28.39^\circ$$

$$\angle BAD = 35 + \theta_1 = 63.39^\circ$$

$$BD = \sqrt{.421^2 + .1^2 - 2(.421)(.1) \cos 63.39} = .387 \text{ m}$$

$$\frac{\sin \angle ADB}{.387} = \frac{\sin 63.39}{.4} \Rightarrow \angle ADB = 13.36^\circ$$

$$\angle ABD = 180 - (\angle BAD + \angle ADB) = 103.25^\circ$$

$$\angle CBD = \cos^{-1} \left[\frac{4^2 + .387^2 - .3^2}{2(.4)(.387)} \right] = 49.77^\circ$$

$$\angle BDC = \cos^{-1} \left[\frac{.3^2 + .387^2 - .4^2}{2(.3)(.387)} \right] = 69.91^\circ$$

$$\angle BCD = 180 - (\angle CBD + \angle BDC) = 65.32^\circ$$

$$\omega_2 = 80 \text{ rpm} \left(\frac{\pi}{30} \right) = 8.377 \text{ rad/s, CW}$$

$$V_B = (8.377)(.1) = .8377 \text{ m/s} \swarrow 55^\circ$$

$$V_C = V_B + V_{C/B}$$

$$\angle ABC = \angle ABD + \angle CBD = 143.02^\circ$$

$$\frac{\sin (180 - 143.02)}{.8377} = \frac{\sin (180 - 65.32)}{.4}$$

$$V_C = .4883 \text{ m/s}$$

$$\omega_4 = (.4883)/.3 = 1.627 \text{ rad/s, CW}$$

$$V_E = (1.627)(.6) = .9765 \text{ m/s}$$

$$\angle CDE = \cos^{-1} \left[\frac{3^2 + .6^2 - .32^2}{2(.3)(.6)} \right] = 15.08^\circ$$

$$\angle EDG = \theta_1 + \angle ADB + \angle BDC - \angle CDE = 96.58^\circ$$

$$V_E = .9765 \text{ m/s} \swarrow 6.58^\circ$$



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