

2/175 $\theta = \omega t = \frac{20}{180} \pi = 0.698 \text{ rad/s}$
 $\dot{\theta} = \frac{10}{180} \pi = 0.1745 \text{ rad/s}$
 $\ddot{\theta} = \frac{20}{180} \pi = 0.349 \text{ rad/s}^2$
 Use cylindrical coordinates
 $r = b \cos \beta + c \sin \beta$, $\dot{r} = (-\dot{\beta} \sin \beta + c \cos \beta) \dot{\beta}$
 $\ddot{r} = (-\ddot{\beta} \sin \beta - \dot{\beta}^2 \cos \beta) \dot{\beta}^2 + (-\dot{\beta} \sin \beta + c \cos \beta) \ddot{\beta}$
 $\theta = b + c \sin \beta + c \cos \beta$, $\dot{\theta} = (\dot{\beta} \cos \beta - c \sin \beta) \dot{\beta}$
 $\ddot{\theta} = (-\ddot{\beta} \sin \beta - \dot{\beta}^2 \cos \beta) \dot{\beta}^2 + (\dot{\beta} \cos \beta - c \sin \beta) \ddot{\beta}$
 For $\beta = 90^\circ$, $\dot{\beta} = (-300 + 0.5 + 300 + 0.956)(0.1745) = 4.050 \text{ mm/s}$
 $\ddot{\beta} = (-300 + 0.5 - 300 + 0.9)(0.1745)^2 = -2.865 \text{ mm/s}^2$
 $\dot{\theta} = (-300 + 0.5 + 300 + 0.956)(0.1745) = 4.050 \text{ mm/s}$
 $\ddot{\theta} = (-300 + 0.5 - 300 + 0.9)(0.1745)^2 = -2.865 \text{ mm/s}^2$
 $a_r = \ddot{r} - r\dot{\theta}^2 = -2.865 - 4.050^2(0.1745)^2 = -1.265 \text{ mm/s}^2$
 $a_\theta = r\ddot{\theta} + 2\dot{r}\dot{\theta} = 0 + 2(4.050)(0.1745) = 1.405 \text{ mm/s}^2$
 $a = \sqrt{a_r^2 + a_\theta^2} = 1.563 \text{ mm/s}^2$

2/176 $a_r = \ddot{r} - r\dot{\theta}^2 = 0 - r\omega^2$
 $a_\theta = r\ddot{\theta} + 2\dot{r}\dot{\theta} = 0 + 0 = 0$
 $a_s = \frac{d}{dt}(L \sin \omega t) = -L\omega^2 \sin 2\omega t$
 $a = \sqrt{(-r\omega^2)^2 + (-L\omega^2 \sin 2\omega t)^2}$
 $a_{\max} = \sqrt{r^2\omega^2 + L^2\omega^2} = 5.65 \text{ mm/s}^2$

2/177 Helix angle is $\gamma = \tan^{-1} \frac{10}{24} = 22.5^\circ$
 $v = 15 \left(\frac{5280}{3600} \right) = 22 \text{ ft/sec}$
 $v_x = v \sin \gamma = 22 \sin 22.5^\circ = 8.47 \text{ ft/sec}$
 $v_y = v \cos \gamma = 22 \cos 22.5^\circ = 20.2 \text{ ft/sec}$
 From $v_y = r\dot{\theta}$, $\dot{\theta} = \frac{20.2}{24} = 0.842 \text{ rad/sec}$
 $a_{x2} = 2 \left(\frac{5280}{3600} \right) = 2.93 \text{ ft/sec}^2$
 $a_{y2} = -2.93 \cos 22.5^\circ = -2.71 \text{ ft/sec}^2$
 $a_x = -2.71 \sin 22.5^\circ = -0.51 \text{ ft/sec}^2$
 $a_y = -2.71 \cos 22.5^\circ = -2.48 \text{ ft/sec}^2$
 $a_r = \ddot{r} - r\dot{\theta}^2 = 0 - 24(0.842)^2 = -16.82 \text{ ft/sec}^2$

2/178 $\beta = \tan^{-1} \frac{1}{2} = 26.6^\circ$
 $\phi = \tan^{-1} \frac{3}{4} = 36.9^\circ$
 $v_R = 400 \sin 26.6^\circ \sin 36.9^\circ = 92.0 \text{ km/h} = R$
 $\dot{\theta} = 0.1788 \text{ rad/s}$
 $\dot{\phi} = 0.0731 \text{ rad/s}$

2/179 $v_r = \dot{r} \sin \beta = c \sin \beta$
 $v_\theta = r\dot{\theta} = (L \sin \beta)K = KL \sin \beta$
 $v_s = \dot{s} \cos \beta = c \cos \beta$
 $\dot{s} = K \sqrt{(c \sin \beta)^2 + (KL \sin \beta)^2 + (c \cos \beta)^2}$
 $= \sqrt{c^2 + K^2 L^2 \sin^2 \beta}$
 $a_r = \ddot{r} - r\dot{\theta}^2 = 0 - L \sin \beta (K^2) = -K^2 L \sin \beta$
 $a_\theta = r\ddot{\theta} + 2\dot{r}\dot{\theta} = 0 + 2c \sin \beta (K) = 2Kc \sin \beta$
 $a_s = \dot{s} = 0$
 $a = \sqrt{(-K^2 L \sin \beta)^2 + (2Kc \sin \beta)^2} = K \sin \beta \sqrt{K^2 L^2 + 4c^2}$

2/180 $\theta = \omega t = \frac{\pi}{2} t$
 $\dot{\theta} = \frac{\pi}{2}$
 $\begin{cases} x' = r \cos \theta \\ y' = r \sin \theta \\ z' = 0 \end{cases}$
 $\begin{cases} \dot{x}' = -r\dot{\theta} \sin \theta \\ \dot{y}' = r\dot{\theta} \cos \theta \\ \dot{z}' = 0 \end{cases}$
 $\ddot{x}' = -r\dot{\theta}^2 \cos \theta, \ddot{y}' = -r\dot{\theta}^2 \sin \theta, \ddot{z}' = 0$
 Component relationship:
 $\begin{cases} x = x' \cos 30^\circ + z' \sin 30^\circ \\ y = y' \\ z = -x' \sin 30^\circ + z' \cos 30^\circ \end{cases}$
 Thus $\frac{dx}{dt} = \frac{1}{2} r \cos \frac{\pi}{2} t, \frac{dy}{dt} = r \sin \frac{\pi}{2} t, \frac{dz}{dt} = -\frac{1}{2} r \cos \frac{\pi}{2} t$
 $\ddot{x} = -\frac{1}{2} r \sin \frac{\pi}{2} t, \ddot{y} = r \cos \frac{\pi}{2} t, \ddot{z} = \frac{1}{2} r \sin \frac{\pi}{2} t$
 $\ddot{x} = -\frac{1}{2} \frac{v^2}{r} \cos \frac{\pi}{2} t, \ddot{y} = \frac{v^2}{r} \sin \frac{\pi}{2} t, \ddot{z} = \frac{1}{2} \frac{v^2}{r} \cos \frac{\pi}{2} t$
 Note that position relationships do not include the constants associated with the origin position.

2/181 $a = \frac{v^2}{r}$
 $v = 600 \text{ km/h}$
 $\phi = \tan^{-1} \frac{400}{1000} = 21.8^\circ$
 $a = \frac{v^2}{r} = \frac{(600/3.6)^2}{1200} = 23.1 \text{ m/s}^2$
 $R = 0, \dot{\theta} = 0, \ddot{\theta} = \frac{v_R}{R \cos \beta} = \frac{600(1000)/3.6}{1000} = 0.1667 \text{ s}^{-2}$
 Eqs. 2/19: $a_R = \ddot{R} - R\dot{\theta}^2 - R\dot{\phi}^2 \cos^2 \beta$
 $23.1 \sin 21.8^\circ = \ddot{R} - 0 - \frac{1000}{\cos 21.8^\circ} (0.1667)^2 \cos^2 21.8^\circ$
 $\ddot{R} = 34.4 \text{ m/s}^2$
 $a_\phi = \frac{1}{R} \frac{d}{dt} (R^2 \dot{\phi}) = R\dot{\phi}^2 \sin \beta \cos \beta + 2\dot{R}\dot{\phi} + R\ddot{\phi} \sin \beta \cos \beta$
 $23.1 \cos 21.8^\circ = 0 + \frac{1000}{\cos 21.8^\circ} \dot{\phi} + \frac{1000}{\cos 21.8^\circ} 0.1667 \sin 21.8^\circ \cos 21.8^\circ$
 $\dot{\phi} = 0.01038 \text{ rad/s}^2$

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Robert R. Redfield



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