

2/153 $r = \sqrt{1000^2 + 400^2}$
 $= 1077 \text{ m}$

$\theta = \tan^{-1} \frac{400}{1000} = 21.8^\circ$

$u = \frac{500}{3.6} = 138.9 \text{ m/s}$

$a = a_n = \frac{u^2}{r} = \frac{138.9^2}{1077} = 17.4 \text{ m/s}^2$

$u_r = \dot{r} = u \cos \theta = 138.9 \cos 21.8^\circ = 128.7 \text{ m/s}$

$u_\theta = r\dot{\theta} = -128.7 \sin 21.8^\circ = -47.7\dot{\theta}$, $\dot{\theta} = -0.00268 \text{ rad/s}$

$a_r = \ddot{r} - r\dot{\theta}^2 = 23.1 \sin 21.8^\circ = \ddot{r} - 1077(-0.00268)^2$
 $\ddot{r} = 12.15 \text{ m/s}^2$

$a_\theta = r\ddot{\theta} + 2\dot{r}\dot{\theta} = 23.1 \cos 21.8^\circ = 1077\ddot{\theta} + 2(128.7)(-0.00268)$
 $\ddot{\theta} = 0.00268 \text{ rad/s}^2$

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$\dot{\theta} = 2.20 \left(\frac{\pi}{180} \right) = 0.0384 \text{ rad/sec}$

$u_r = \dot{r} = 360 \text{ ft/sec}$

$u_\theta = r\dot{\theta} = 12,000(0.0384) = 461 \frac{\text{ft}}{\text{sec}}$

$u = \sqrt{u_r^2 + u_\theta^2} = 585 \text{ ft/sec}$

or $u = 399 \text{ mi/hr}$

$30^\circ + \beta = \tan^{-1} \frac{360}{461} = 38.0^\circ$, $\beta = 8.0^\circ$

$h = r \cos 30^\circ = 12,000 \cos 30^\circ = 10,392 \text{ ft}$

$a_r = \ddot{r} - r\dot{\theta}^2 = 17.60 - 12,000(0.0384)^2 = 1.908 \frac{\text{ft}}{\text{sec}^2}$

$a = \frac{a_r}{\sin(\theta + \beta)} = \frac{1.908}{\sin 38.0^\circ} = 3.10 \text{ ft/sec}^2$

$a_\theta = \frac{a_r}{\tan(\theta + \beta)} = r\ddot{\theta} + 2\dot{r}\dot{\theta}$

$\frac{1.908}{\tan 38.0^\circ} = 12,000 \ddot{\theta} + 2(360)(0.0384)$, $\ddot{\theta} = -0.00200 \frac{\text{rad}}{\text{sec}^2}$

2/155 $\theta = 0.4 + 0.12t + 0.06t^2$ $r = 0.8 - 0.1t - 0.05t^2$
 $\dot{\theta} = 0.12 + 0.12t$ $\dot{r} = -0.1 - 0.1t$
 $\ddot{\theta} = 0.12$ $\ddot{r} = -0.1$

At $t = 2 \text{ s}$: $\left\{ \begin{array}{l} \theta = 1.12 \text{ rad} \\ \dot{\theta} = 0.34 \text{ rad/s} \\ \ddot{\theta} = 0.12 \text{ rad/s}^2 \end{array} \right. \left\{ \begin{array}{l} r = 0.4 \text{ m} \\ \dot{r} = -0.3 \text{ m/s} \\ \ddot{r} = -0.1 \text{ m/s}^2 \end{array} \right.$

$u = \dot{r}\mathbf{e}_r + r\dot{\theta}\mathbf{e}_\theta = -0.3\mathbf{e}_r + 0.4(0.34)\mathbf{e}_\theta$
 $= -0.3\mathbf{e}_r + 0.136\mathbf{e}_\theta \text{ m/s}$

$a = (\ddot{r} - r\dot{\theta}^2)\mathbf{e}_r + (r\ddot{\theta} + 2\dot{r}\dot{\theta})\mathbf{e}_\theta = [-0.1 - 0.4(0.34)^2]\mathbf{e}_r$
 $+ [0.4(0.12) + 2(-0.3)(0.34)]\mathbf{e}_\theta = -0.382\mathbf{e}_r - 0.248\mathbf{e}_\theta \text{ m/s}^2$

$\theta_1 = \tan^{-1} \frac{|u_\theta|}{|u_r|} = 41.8^\circ$
 $\alpha = 90^\circ + \theta_1 + \theta = 175.1^\circ$
 $\theta_2 = \tan^{-1} \frac{|a_\theta|}{|a_r|} = 60.5^\circ$
 $\beta = -90^\circ + \theta - \theta_2 = -86.4^\circ$
 $\theta = 64.2^\circ$

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$u' = |u_r| = u \cos \theta = u \frac{L}{\sqrt{L^2 + D^2}}$

Numbers: $u' = 70 \frac{560}{\sqrt{500^2 + 20^2}} = 69.9 \text{ mi/hr}$

The factor of $\cos \theta$ is the basis for the statement that, kinematically, radar can yield an accurate or low, but not high, speed measurement. As can be seen, however, adherence to the speed limit (not release rpm $\cos \theta$) is the best policy!

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Radial line r must be tangent to trajectory for $\dot{\theta} = 0$. Thus $\pm \theta$ direction is in the opposite sense to the normal n -direction of the curve.

$r = 35,000 \text{ ft}$, $\dot{r} = 1000 \text{ ft/sec}$
 $\dot{\theta} = 0$, $\ddot{\theta} = 7.20(10^{-3}) \text{ rad/sec}^2$
 $a_\theta = r\ddot{\theta} + 2\dot{r}\dot{\theta} = 35,000(7.20(10^{-3})) + 0$
 $= 252 \text{ ft/sec}^2$
 $-a_\theta = a_n = v^2/\rho$, $\rho = v^2/a_\theta$
 $= \frac{(1000)^2}{252} = 3968 \text{ ft}$

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**Brian D. Harper, J. L. Meriam, L. G.
Kraige**



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