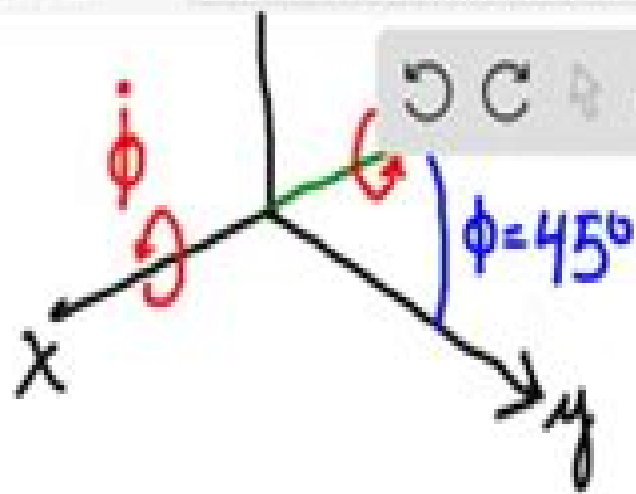




$$60 \frac{\text{rad}}{\text{s}}$$

$$\phi = 45^\circ, \dot{\phi} = 2 \frac{\text{rad}}{\text{s}}$$

Determine angular velocity and angular accel of blade.

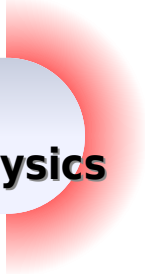
Find angular velocity $\vec{\omega} = \vec{\omega}_z + \vec{\omega}_x + \vec{\omega}_s$

$$\vec{\omega}_x = \dot{\phi} \hat{i} = 2 \hat{i} \frac{\text{rad}}{\text{s}}, \quad \vec{\omega}_{yz} = 42.4 \hat{j} + 43.4 \hat{k} \quad [\text{problem 20-10}]$$

$$\vec{\omega} = 2 \hat{i} + 42.4 \hat{j} + 43.4 \hat{k} \frac{\text{rad}}{\text{s}}$$

The Electric Fan A Model On Rigid Body Rotation

**John W. McWane, Malcolm K.
Smith, American Institute of Physics**



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