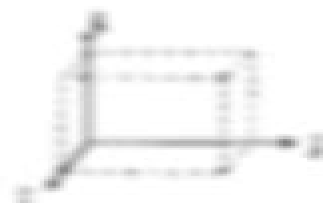


$$1.3 \quad \cos \theta = \frac{\vec{a} \cdot \vec{b}}{|\vec{a}| |\vec{b}|} = \frac{2 \sin \theta + 2 \cos \theta + 2 \sin \theta + 2 \cos \theta}{\sqrt{2} \sqrt{2}} = \frac{4 \cos \theta}{2}$$

$$\theta = \cos^{-1} \frac{\sqrt{2}}{\sqrt{2}} = 45^\circ$$

1.4



Let  $\vec{a} = \vec{i} + \vec{j} + \vec{k}$  : body diagonal

$$\vec{a} = |\vec{a}| \hat{a} = \sqrt{1^2 + 1^2 + 1^2} \hat{a} = \sqrt{3} \hat{a}$$

Let  $\vec{b} = \vec{i} + \vec{j}$  : face diagonal

$$\vec{b} = |\vec{b}| \hat{b} = \sqrt{2} \hat{b}$$

$$\cos \theta = \frac{\vec{a} \cdot \vec{b}}{|\vec{a}| |\vec{b}|} = \frac{\vec{i} \cdot \vec{i} + \vec{j} \cdot \vec{j} + \vec{k} \cdot \vec{k}}{\sqrt{3} \sqrt{2}} = \frac{2}{\sqrt{6}}$$

$$\cos \theta = \frac{\vec{a} \cdot \vec{b}}{|\vec{a}| |\vec{b}|} = \frac{1+1+0}{\sqrt{2} \sqrt{2}} = 1 \quad \therefore \theta = 0^\circ$$

1.5



$$\vec{B} = |\vec{B}| \hat{B} = |\vec{B}| \hat{z} = B \hat{z}$$

$$\therefore \vec{C}_z = C \cos \theta = \frac{B}{2}$$

$$\vec{B} \cdot \vec{C} = BC \cos \theta = 0$$

$$\therefore \vec{C}_x = C \cos \theta = \frac{B}{2}$$

$$\begin{aligned} C &= \frac{B}{2} \hat{x} + \frac{B}{2} \hat{y} + \frac{B}{2} \hat{z} = \frac{B}{2} (\hat{x} + \hat{y} + \hat{z}) \\ &= \frac{B}{2} \hat{x} + \frac{B}{2} \hat{y} + \frac{B}{2} \hat{z} \end{aligned}$$

$$1.6 \quad \frac{d\vec{r}}{dt} = \frac{d}{dt}(\cos t \hat{i} + \sin t \hat{j}) = -\sin t \hat{i} + \cos t \hat{j} = -\sin t \hat{i} + \cos t \hat{j}$$

$$\frac{d^2\vec{r}}{dt^2} = -\cos t \hat{i} - \sin t \hat{j}$$

# Fowles And Cassiday Analytical Mechanics Solutions

**Huang**



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