

15. 三維空間座標化

$$O \left(\frac{1}{2}, 0, \frac{\sqrt{3}}{2} \right), A (0, 1, 0), B (1, 1, 0), C (1, 0, 0), D (0, 0, 0)$$

在平面 OBD 中

$$\overrightarrow{DO} = \left(\frac{1}{2}, 0, \frac{\sqrt{3}}{2} \right)$$

$$\overrightarrow{DB} = (1, 1, 0)$$

$$\text{法向量 } \vec{N} = \left(-\frac{\sqrt{3}}{2}, \frac{\sqrt{3}}{2}, \frac{1}{2} \right)$$

在平面 OBC 中

$$\overrightarrow{CO} = \left(-\frac{1}{2}, 0, \frac{\sqrt{3}}{2} \right)$$

$$\overrightarrow{CB} = (0, 1, 0)$$

$$\text{法向量 } \vec{L} = \left(-\frac{\sqrt{3}}{2}, 0, -\frac{1}{2} \right)$$

$$\cos \theta = \frac{\vec{N} \cdot \vec{L}}{|\vec{N}| |\vec{L}|} = \frac{1}{\sqrt{7}}$$