

2-6 Equation (2.3) is obvious. Equation (2.4) follows from

$$\begin{aligned} R_{z,\theta} R_{z,\phi} &= \begin{bmatrix} c_\theta & -s_\theta & 0 \\ s_\theta & c_\theta & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} c_\phi & -s_\phi & 0 \\ s_\phi & c_\phi & 0 \\ 0 & 0 & 1 \end{bmatrix} \\ &= \begin{bmatrix} c_\theta c_\phi - s_\theta s_\phi & -c_\theta s_\phi - s_\theta c_\phi & 0 \\ s_\theta c_\phi + c_\theta s_\phi & -s_\theta s_\phi + c_\theta c_\phi & 0 \\ 0 & 0 & 1 \end{bmatrix} \\ &= \begin{bmatrix} \cos(\theta + \phi) & -\sin(\theta + \phi) & 0 \\ \sin(\theta + \phi) & \cos(\theta + \phi) & 0 \\ 0 & 0 & 1 \end{bmatrix} = R_{z,\theta+\phi}. \end{aligned}$$

Equation (2.5) follows from (2.3) and (2.4) since

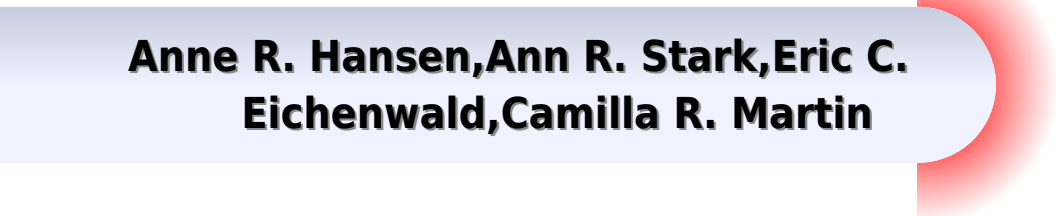
$$R_{z,\theta} R_{z,-\theta} = R_{z,\theta-\theta} = R_{z,0} = I.$$

This can also be shown by noticing that

$$R_{z,\theta}^T = R_{z,-\theta}.$$

Spong Solution Manual

**Anne R. Hansen, Ann R. Stark, Eric C.
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