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Assuming \hat{e}_3 is aligned with \hat{e}_3 , the unit vectors \hat{c}_d and \hat{c}_θ can be related to \hat{e}_1 and \hat{e}_2 through $\hat{c}_d = \cos \theta \hat{e}_1 + \sin \theta \hat{e}_2$ $\hat{c}_\theta = -\sin \theta \hat{e}_1 + \cos \theta \hat{e}_2$ (1.4a) (1.4b) A spherical coordinate system S is illustrated in Figure 1.3 with its orientation defined through the triad of unit vectors $\{\hat{r}, \hat{\theta}, \hat{\phi}\}$.

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