3 E. Model Propagation.

$$J = \begin{bmatrix} \frac{\partial \mathcal{F}(X_{t-1}, 2)}{\partial X_{t-1}} & \frac{\partial \mathcal{F}(X_{t-1}, 2)}{\partial 2} J \\ J_{X} & J_{Z} \end{bmatrix}$$

$$J_{x} = \begin{bmatrix} 1 & 0 & -\sin\theta \delta + (v + \eta v) \\ 0 & 1 & \cos\theta \delta + (v + \eta v) \\ 0 & 0 & 1 \end{bmatrix}$$

$$\int_{\eta}^{2} \int \Delta t \cos(\theta) = 0$$

$$\Delta t \sin(\theta) = 0$$

$$\Delta t \sin(\theta) = 0$$

$$\sum_{X_{\underline{t}}} = \int_{X} \sum_{X_{\underline{t}-1}} \int_{X}^{T} + \int_{\underline{T}} \sum_{\underline{T}} \int_{\underline{T}}^{T}$$