

$$\mathbf{G}_n = \mathbf{P}_{n|n-\backslash} \mathbf{B}_n^T [\mathbf{B}_n \mathbf{P}_{n|n-\backslash} \mathbf{B}_n^T + \mathbf{Q}_{\nu,n}]^{-\backslash} \quad (\textcircled{r})$$

$$\boldsymbol{\alpha}_n = \mathbf{y}_n - \mathbf{B}_n \hat{\mathbf{x}}_{n|n-\backslash} \quad (\textcircled{s})$$

$$\hat{\mathbf{x}}_{n|n} = \hat{\mathbf{x}}_{n|n-\backslash} + \mathbf{G}_n \boldsymbol{\alpha}_n \quad (\textcircled{c})$$

$$\hat{\mathbf{x}}_{n|n+\backslash} = \mathbf{A}_{n+\backslash,n} \hat{\mathbf{x}}_{n|n} \quad (\textcircled{d})$$

$$\mathbf{P}_{n|n} = \mathbf{P}_{n|n-\backslash} - \mathbf{G}_n \mathbf{B}_n \mathbf{P}_{n|n-\backslash} \quad (\textcircled{l})$$

$$\mathbf{P}_{n+\backslash|n} = \mathbf{A}_{n+\backslash,n} \mathbf{P}_{n|n} \mathbf{A}_{n+\backslash,n}^T + \mathbf{Q}_{\omega,n} \quad (\textcircled{o})$$