$$\frac{1}{\sqrt{i}} = \alpha_{S(i)} + \beta_{\alpha_{eys}} + \epsilon_{i}$$

$$\alpha_{S(i)} \sim N(\beta_{\alpha}, \sigma_{\alpha}^{2})$$

$$\epsilon_{i} \sim N(c, \sigma^{2})$$

$$\frac{1}{2} \sim M_{N} \left(M, \frac{2}{2} \right)$$

$$= \frac{7}{2}$$

$$= \frac{7}{2}$$

$$M = E(Y|\theta) (E(Y;16)) = \beta_{\alpha} + \beta_{\alpha} \alpha_{\alpha y s}$$

$$E(Y_i|b) = E(X_{S(i)} + B days + E_i | G)$$

$$= E(X_{S(i)}|b) + P days = P_X + P days$$

$$\mathcal{E} = \{ \mathcal{E}_{mn} \}$$

$$\mathcal{E}_{mn} = (Cov (Y_m | \theta), Y_n | 1\theta)$$

$$= (Cov (X_3(m) + B d + E_m, X_3(n) + B d + E_n)$$

$$= (Cov (X_3(m) + E_m, X_3(n) + E_n)$$

$$= (Cov (X_3(m), X_3(n)) + (Cov (X_3(m), E_n)$$

$$+ (Cov (E_m, X_3(n)) + (Cov (E_m, E_n))$$

$$\begin{pmatrix}
C_{0} & (X_{1}(n), X_{2}(n)) = \begin{cases}
C_{0} & \text{if } J(n) = J(n) \\
C_{0} & \text{if } J(n) \neq J(n)
\end{cases}$$

$$\begin{pmatrix}
C_{0} & (C_{n}, C_{n}) = \begin{cases}
C_{0} & \text{otherwise}
\end{cases}$$

$$\sum_{m} m = \begin{cases} \int_{\alpha}^{\infty} f \int_{\alpha$$

