where
$$\beta = \frac{\text{Cov}(\text{Rm, Ri})}{\sigma_{m}^{2}}$$

3.
$$\alpha = R_p - E(R) = R_p - \left(R_{f} + \beta E(R_m) - R_f\right)^{\frac{3}{2}}$$

4.
$$w_p = w_1 u_1 + w_2 u_2$$

$$\begin{cases} \sigma_p^2 = w_1^2 \sigma_1^2 + w_2^2 \sigma_2^2 + 2w_1 w_2 p_0 \sigma_2 \end{cases}$$

$$\Theta = \frac{\partial P}{\partial t}$$
 $P = \frac{\partial P}{\partial r}$

6.
$$\Delta P = \frac{\partial P}{\partial S} \Delta S + \frac{1}{2} \frac{\partial^2 P}{\partial S^2} (\Delta S)^2 + \frac{\partial P}{\partial S} \Delta S$$

$$\sum_{i} \langle C_{p} = \sum_{i} w_{i}^{i} C_{i}^{i} \rangle w_{i}^{i} = \sum_{i} w_{i}^{i} D_{i}^{i}$$

$$P_n = \frac{\text{cov}_n(x, y)}{\sigma_{x, n} \sigma_{y, n}}$$

· Normal 假定下



