CHAPTER 10

- Appendix

> Basic Forecasting Formula

(10A·1)

→ Ŷ is an unbiased estimate of Y

: nath, notificated bourson a such { p, r } II ~

O is the wax. likelihood estimate of r given g

& Technical treatment of Examples

-> consider one osset with K forecasts g= [g, g2,...,gK]

$$Vax \{g\} = \begin{bmatrix} sh\lambda\{g, 3 \\ 0 \\ sh\lambda\{g_{\kappa}\} \end{bmatrix} \cdot p_{q} \cdot \begin{bmatrix} sh\lambda\{g, 3 \\ 0 \\ sh\lambda\{g_{\kappa}\} \end{bmatrix}$$

(81·A01)

→ Corariance b/w K signals will involve K ICs

(PI · A OI)

-> Input into basic Forecasting formula

$$= \omega \cdot \left[\underline{IC}, \dots \underline{IC}_{\kappa} \right] \cdot \rho_{g}^{-1} \cdot \left[\underbrace{\frac{5 + \lambda \xi g_{x} g}{5 + \lambda \xi g_{x} g}}_{\text{out}} \right] \cdot \left[\underbrace{\frac{g_{x} - \xi \xi g_{x} g}{g_{\kappa} - \xi \xi g_{\kappa} g}}_{\text{out}} \right]$$

simplifies to

(10A · 21)

(10A.20)

where $z_i = (g_i - E \{g_i\}) \cdot Sta^i \{g_i\}$