Exhibit 11.3 Some Common Models for Step Response Interventions
(All are shown with a delay of 1 time unit)

(a)

$$\omega B S_t^{(T)}$$

(ω)

0

T

(b)

$$\frac{\omega B}{1 - \delta B} S_t^{(T)}$$

$\omega (1 - \delta)$

(ω)

0

T

(c)

$$\frac{\omega B}{1 - B} S_t^{(T)}$$
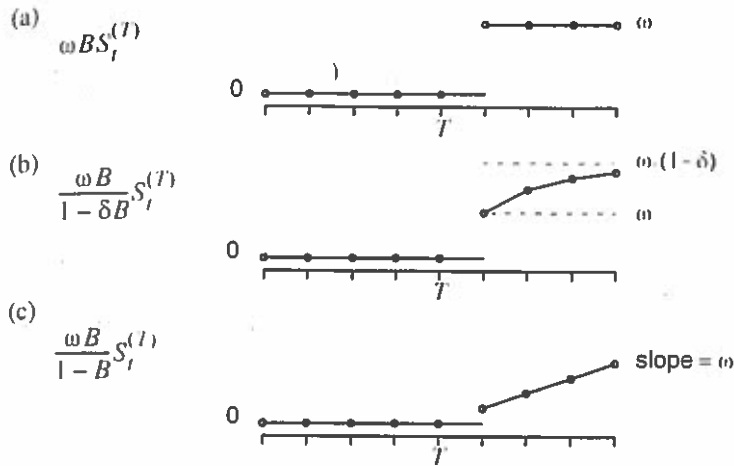
slope $= \omega$

0

T

Exhibit 11.4 Some Common Models for Pulse Response Interventions
(All are shown with a delay of 1 time unit)

(a)

$$\frac{\omega B}{1 - \delta B} P_t^{(T)}$$

ω

0

T

(b)

$$\left[\frac{\omega_1 B}{1 - \delta B} + \frac{\omega_2 B}{1 - B} \right] P_t^{(T)}$$

$\omega_1 + \omega_2$

ω_2

0

T

(c)

$$\left[\omega_0 + \frac{\omega_1 B}{1 - \delta B} + \frac{\omega_2 B}{1 - B} \right] P_t^{(T)}$$

ω_0

0

ω_2

$\omega_1 + \omega_2$

T