

RW 9.20

Diagrams \rightarrow Linear Graph \rightarrow SS Model

\rightarrow
TF \rightarrow i/o ODE

$$\ddot{y} + a_1 \dot{y} + a_0 y = u(t)$$

$$\ddot{y} + 2\zeta \omega_n \dot{y} + \omega_n^2 y = u(t)$$

$$\omega_n^2 = a_0 \rightarrow \omega_n = \sqrt{a_0}$$