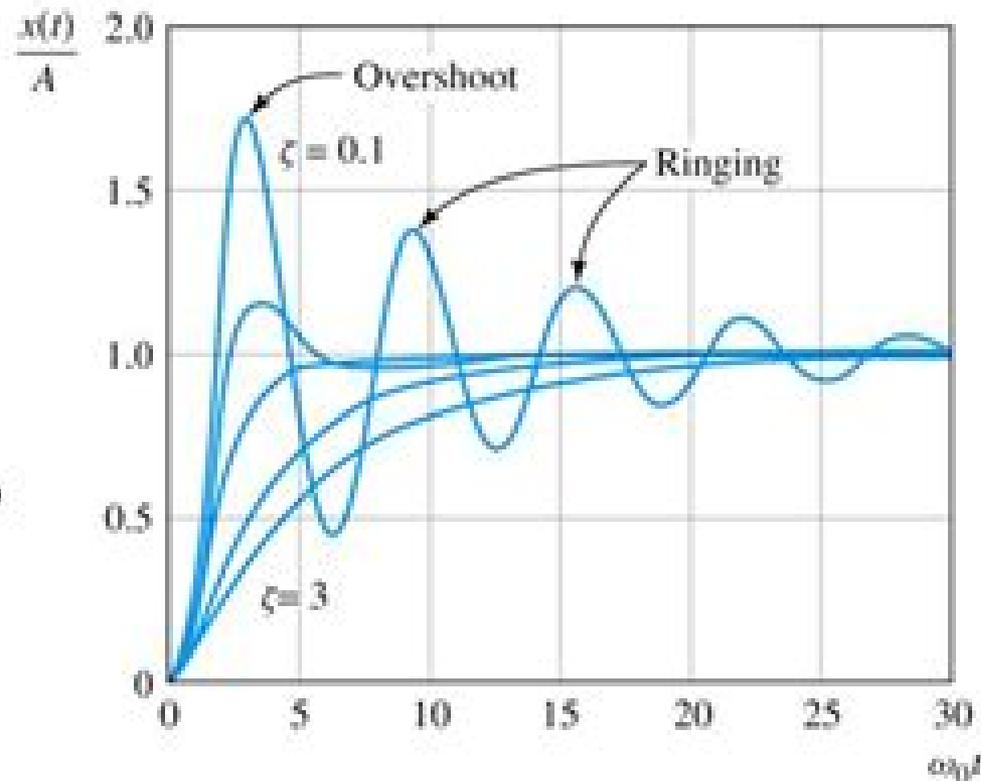


# Normalized Step Response of a Second Order System

What value of  $\zeta$  should be used to get to the steady state position quickly without overshooting?



**Figure 4.29** Normalized step responses for second-order systems described by Equation 4.99 with damping ratios of  $\zeta = 0.1, 0.5, 1, 2,$  and  $3$ . The initial conditions are assumed to be  $x(0) = 0$  and  $x'(0) = 0$ .

# Lab 3 Second Order Response Transient And Sinusoidal

**Roman Wölfel**



### Lab 3 Second Order Response Transient And Sinusoidal:

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