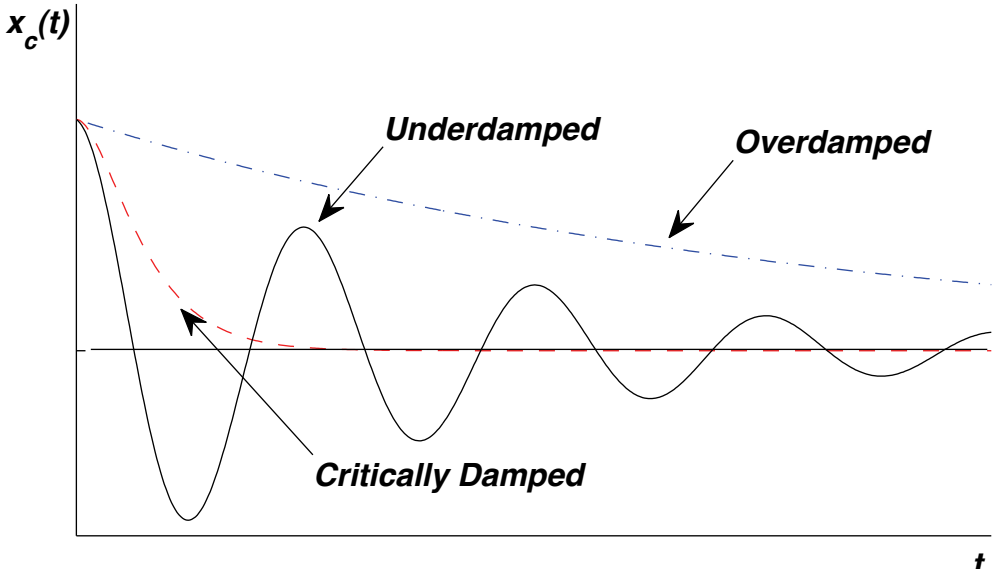
$x_c(t)$
Underdamped
Overdamped
Critically Damped
t