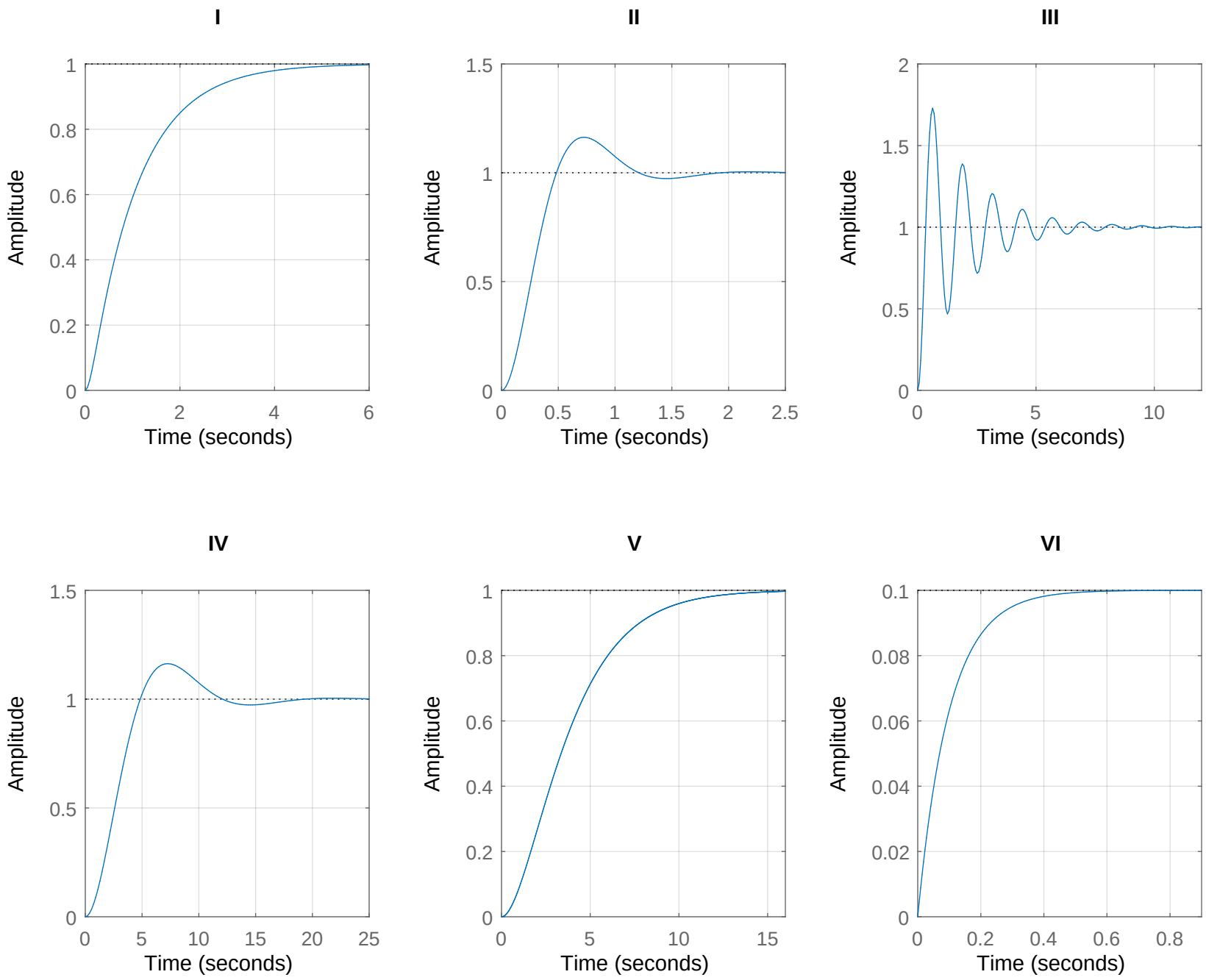
Transfer Function	Canonical	Parameters	Performance	Matching Graph
$G_1(s) = \frac{0.25}{s^2 + 0.5s + 0.25}$	$G_1(s) = \frac{(\ )^2}{s^2 + 2(\ )(\ )s + (\ )^2}$ Real: ☐ Imaginary: ☐ Root:	$\omega_n =$ $\zeta =$ K =	$t_r = 2.2/\omega_n =$ $t_s = 4.6/\zeta\omega_n =$ %OS =	
$G_2(s) = \frac{25}{s^2 + 5s + 25}$	$G_2(s) = \frac{(\ )^2}{s^2 + 2(\ )(\ )s + (\ )^2}$ Real: ☐ Imaginary: ☐ Root:	$\omega_n =$ $\zeta =$ K =	$t_r = 2.2/\omega_n =$ $t_s = 4.6/\zeta\omega_n =$ %OS =	
$G_3(s) = \frac{10}{(s+1)(s+10)}$	$G_{approx}(s) = (\ )\frac{(\ )}{(s+\ \ )}$ Real: ☐ Imaginary: ☐ Root:	$\sigma =$ K=	$t_r = 2.2/\omega_n =$ $t_s = 4.6/\sigma =$	
$G_4(s) = \frac{1}{(s+10)}$	$G_4(s) = \frac{(\ )}{(\ )}\frac{(\ )}{(s+\ \ )}$ Real: ☐ Imaginary: ☐ Root:	$\sigma =$ K=	$t_r = 2.2/\omega_n =$ $t_s = 4.6/\sigma =$	
$G_5(s) = \frac{25}{s^2 + s + 25}$	$G_5(s) = \frac{(\ )^2}{s^2 + 2(\ )(\ )s + (\ )^2}$ Real: ☐ Imaginary: ☐ Root:	$\omega_n =$ $\zeta =$ K =	$t_r = 2.2/\omega_n =$ $t_s = 4.6/\zeta\omega_n =$ %OS =	
$G_6(s) = \frac{0.25}{s^2 + s + 0.25}$	$G_6(s) = \frac{(\ )^2}{s^2 + 2(\ )(\ )s + (\ )^2}$ Real: ☐ Imaginary: ☐ Root:	$\omega_n =$ $\zeta =$ K =	$t_r = 2.2/\omega_n =$ $t_s = 4.6/\zeta\omega_n =$ %OS =	


I
Amplitude
Time (seconds)
0
0.2
0.4
0.6
0.8
1
0
2
4
6
II
Amplitude
Time (seconds)
0
0.5
1
1.5
0
0.5
1
1.5
2
2.5
III
Amplitude
Time (seconds)
0
0.5
1
1.5
2
0
5
10
IV
Amplitude
Time (seconds)
0
0.5
1
1.5
0
5
10
15
20
25
V
Amplitude
Time (seconds)
0
0.2
0.4
0.6
0.8
1
0
5
10
15
VI
Amplitude
Time (seconds)
0
0.02
0.04
0.06
0.08
0.1
0
0.2
0.4
0.6
0.8