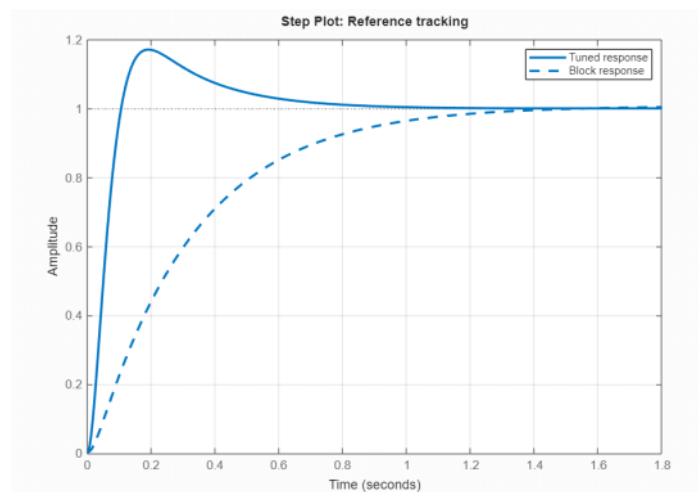


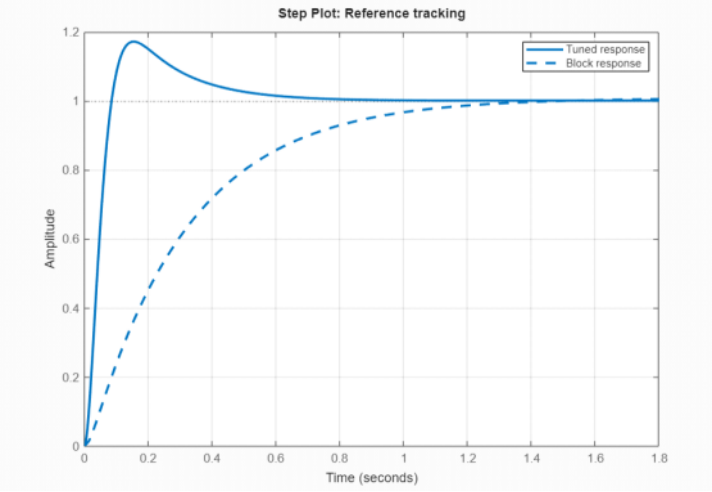
PID Controller Charts

Friday, February 14, 2025 2:14 PM

Motor 1:



Motor 2:



Motor 1:

Controller Parameters			
	Tuned	Block	
P	23.3174	4.2	
I	81.8636	0.1	
D	n/a	n/a	
N	n/a	n/a	
Performance and Robustness			
	Tuned	Block	
Rise time	0.0728 seconds	0.663 seconds	
Settling time	0.679 seconds	1.14 seconds	
Overshoot	17.1 %	0.687 %	
Peak	1.17	1.01	
Gain margin	-Inf dB @ 0 rad/s	-Inf dB @ 0 rad/s	
Phase margin	60 deg @ 16.4 rad/s	86.1 deg @ 3.04 rad/s	
Closed-loop stability	Stable	Stable	

Motor 2:

Controller Parameters			
	Tuned	Block	
P	26.9495	4	
I	117.4534	0.1	
D	n/a	n/a	
N	n/a	n/a	
Performance and Robustness			
	Tuned	Block	
Rise time	0.0587 seconds	0.655 seconds	
Settling time	0.547 seconds	1.12 seconds	
Overshoot	17.1 %	0.707 %	
Peak	1.17	1.01	
Gain margin	-Inf dB @ 0 rad/s	-Inf dB @ 0 rad/s	
Phase margin	60 deg @ 20.4 rad/s	86.7 deg @ 3.11 rad/s	
Closed-loop stability	Stable	Stable	