

Transfer Functions

v_da =

$$\frac{12.54 s^3 + 973.5 s^2 + 674 s + 0.6781}{s^4 + 0.8331 s^3 + 2182 s^2 + 1497 s - 0.3072}$$

Continuous-time transfer function.
Model Properties

p_da =

$$\frac{2.64 s^3 + 0.519 s^2 + 5295 s - 16.16}{s^4 + 0.8331 s^3 + 2182 s^2 + 1497 s - 0.3072}$$

Continuous-time transfer function.
Model Properties

r_da =

$$\frac{-0.072 s^3 - 0.2314 s^2 + 388.8 s + 220.1}{s^4 + 0.8331 s^3 + 2182 s^2 + 1497 s - 0.3072}$$

Continuous-time transfer function.
Model Properties

phi_da =

$$\frac{2.635 s^2 + 0.502 s + 5323}{s^4 + 0.8331 s^3 + 2182 s^2 + 1497 s - 0.3072}$$

Continuous-time transfer function.
Model Properties

v_dr =

$$\frac{12.54 s^3 + 973.5 s^2 + 674 s + 0.6781}{s^4 + 0.8331 s^3 + 2182 s^2 + 1497 s - 0.3072}$$

Continuous-time transfer function.
Model Properties

p_dr =

$$\frac{1.21 s^3 - 28.29 s^2 + 450.3 s - 1.379}{s^4 + 0.8331 s^3 + 2182 s^2 + 1497 s - 0.3072}$$

Continuous-time transfer function.
Model Properties

r_dr =

$$\frac{-1.16 s^3 + 32.44 s^2 + 56.24 s + 18.78}{s^4 + 0.8331 s^3 + 2182 s^2 + 1497 s - 0.3072}$$

Continuous-time transfer function.
Model Properties

phi_dr =

$$\frac{1.125 s^2 - 25.9 s + 454.4}{s^4 + 0.8331 s^3 + 2182 s^2 + 1497 s - 0.3072}$$

Continuous-time transfer function.
Model Properties

v_da_2DOF =

$$\frac{55.58}{s^2 + 0.1981 s + 2.662}$$

Continuous-time transfer function.
Model Properties

r_da_2DOF =

$$\frac{-0.072 s - 0.005623}{s^2 + 0.1981 s + 2.662}$$

Continuous-time transfer function.
Model Properties

v_dr_2DOF =

$$\frac{12.54 s + 896.9}{s^2 + 0.1981 s + 2.662}$$

Continuous-time transfer function.
Model Properties

r_dr_2DOF =

$$\frac{-1.16 s - 0.0475}{s^2 + 0.1981 s + 2.662}$$

Continuous-time transfer function.
Model Properties

v_da_3DOF_DR =

$$\frac{0.072}{s^2 + 0.1981 s + 0.01281}$$

Continuous-time transfer function.
Model Properties

p_da_3DOF_DR =

$$\frac{2.64 s^2 + 0.523 s + 0.0336}{s^3 + 0.8331 s^2 + 0.1386 s + 0.008134}$$

Continuous-time transfer function.
Model Properties

r_da_3DOF_DR =

$$\frac{-0.072 s - 0.005623}{s^2 + 0.1981 s + 0.01281}$$

Continuous-time transfer function.
Model Properties

v_dr_3DOF_DR =

$$\frac{12.54 s + 2.665}{s^2 + 0.1981 s + 0.01281}$$

$$s^2 + 0.1981 s + 0.01281$$

Continuous-time transfer function.
Model Properties

p_dr_3DOF_DR =

$$\frac{1.21 s^2 + 0.2029 s + 0.007684}{s^3 + 0.8331 s^2 + 0.1386 s + 0.008134}$$

Continuous-time transfer function.
Model Properties

r_dr_3DOF_DR =

$$\frac{-1.16 s - 0.0475}{s^2 + 0.1981 s + 0.01281}$$

Continuous-time transfer function.
Model Properties

p_dr_3DOF_SP =

$$\frac{1.21 s + 0.08128}{s^2 + 0.755 s + 0.07996}$$

Continuous-time transfer function.
Model Properties

r_dr_3DOF_SP =

$$\frac{-1.16 s - 0.8191}{s^2 + 0.755 s + 0.07996}$$

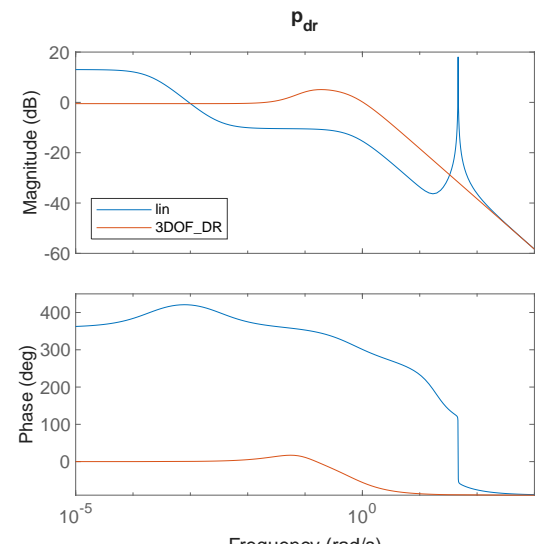
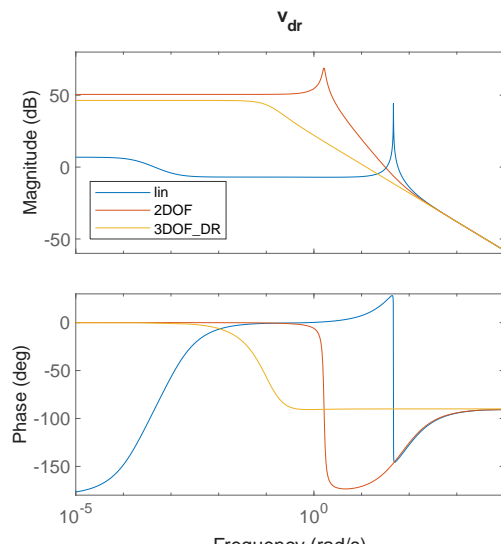
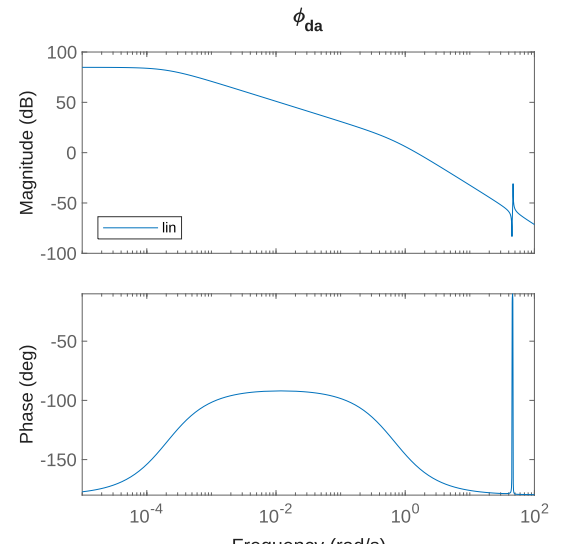
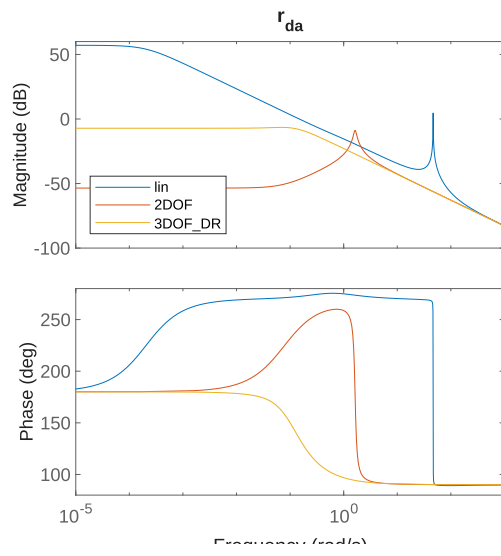
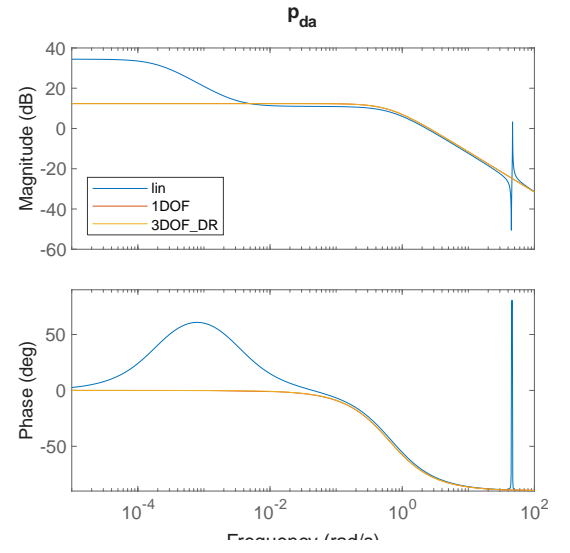
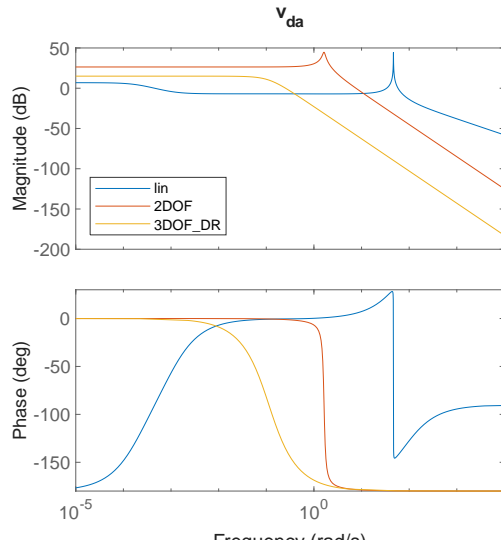
Continuous-time transfer function.
Model Properties

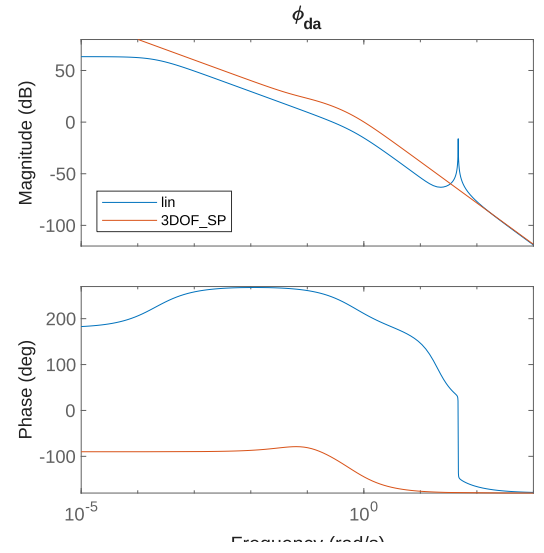
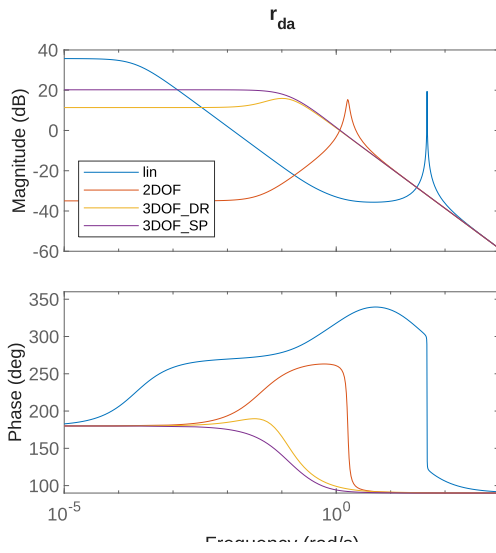
phi_dr_3DOF_SP =

$$\frac{1.21 s + 0.08128}{s^3 + 0.755 s^2 + 0.07996 s}$$

Continuous-time transfer function.
Model Properties

bode Plots





Root Locus Plots

