

Transfer Functions

v_da =

$$\frac{1076 s^3 + 1217 s^2 + 374.3 s - 1.908}{s^4 + 0.6532 s^3 + 2.187 s^2 + 1.232 s - 0.0002815}$$

Continuous-time transfer function.
Model Properties

p_da =

$$\frac{-0.0831 s^3 - 0.01205 s^2 - 0.1029 s + 0.0006435}{s^4 + 0.6532 s^3 + 2.187 s^2 + 1.232 s - 0.0002815}$$

Continuous-time transfer function.
Model Properties

r_da =

$$\frac{0.0144 s^3 + 0.01427 s^2 - 0.01175 s - 0.005241}{s^4 + 0.6532 s^3 + 2.187 s^2 + 1.232 s - 0.0002815}$$

Continuous-time transfer function.
Model Properties

phi_da =

$$\frac{-0.08133 s^2 - 0.0103 s - 0.1043}{s^4 + 0.6532 s^3 + 2.187 s^2 + 1.232 s - 0.0002815}$$

Continuous-time transfer function.
Model Properties

v_dr =

$$\frac{1076 s^3 + 1217 s^2 + 374.3 s - 1.908}{s^4 + 0.6532 s^3 + 2.187 s^2 + 1.232 s - 0.0002815}$$

Continuous-time transfer function.
Model Properties

p_dr =

$$\frac{0.766 s^3 - 4.965 s^2 - 1.319 s + 0.006913}{s^4 + 0.6532 s^3 + 2.187 s^2 + 1.232 s - 0.0002815}$$

Continuous-time transfer function.
Model Properties

r_dr =

$$\frac{-0.836 s^3 + 2.471 s^2 + 1.688 s - 0.0563}{s^4 + 0.6532 s^3 + 2.187 s^2 + 1.232 s - 0.0002815}$$

Continuous-time transfer function.
Model Properties

phi_dr =

$$\frac{0.6634 s^2 - 4.662 s - 1.112}{s^4 + 0.6532 s^3 + 2.187 s^2 + 1.232 s - 0.0002815}$$

Continuous-time transfer function.
Model Properties

v_da_2DOF =

$$\frac{-8.99}{s^2 + 0.1612 s + 1.743}$$

Continuous-time transfer function.
Model Properties

r_da_2DOF =

$$\frac{0.0144 s + 0.0008899}{s^2 + 0.1612 s + 1.743}$$

Continuous-time transfer function.
Model Properties

v_dr_2DOF =

$$\frac{1076 s + 628.8}{s^2 + 0.1612 s + 1.743}$$

Continuous-time transfer function.
Model Properties

r_dr_2DOF =

$$\frac{-0.836 s + 2.941}{s^2 + 0.1612 s + 1.743}$$

Continuous-time transfer function.
Model Properties

v_da_3DOF_DR =

$$\frac{-0.0144}{s^2 + 0.1612 s + 0.008925}$$

Continuous-time transfer function.
Model Properties

p_da_3DOF_DR =

$$\frac{-0.0831 s^2 - 0.0134 s - 0.0006746}{s^3 + 0.6532 s^2 + 0.08824 s + 0.004391}$$

Continuous-time transfer function.
Model Properties

r_da_3DOF_DR =

$$\frac{0.0144 s + 0.0008899}{s^2 + 0.1612 s + 0.008925}$$

Continuous-time transfer function.
Model Properties

v_dr_3DOF_DR =

$$\frac{1076 s + 107.7}{s^2 + 0.1612 s + 0.008925}$$

$$s^2 + 0.1612 s + 0.008925$$

Continuous-time transfer function.
Model Properties

p_dr_3DOF_DR =

$$\frac{0.766 s^2 - 4.887 s - 0.4951}{s^3 + 0.6532 s^2 + 0.08824 s + 0.004391}$$

Continuous-time transfer function.
Model Properties

r_dr_3DOF_DR =

$$\frac{-0.836 s + 2.941}{s^2 + 0.1612 s + 0.008925}$$

Continuous-time transfer function.
Model Properties

p_dr_3DOF_SP =

$$\frac{0.766 s - 0.002109}{s^2 + 0.5914 s + 0.056}$$

Continuous-time transfer function.
Model Properties

r_dr_3DOF_SP =

$$\frac{-0.836 s - 0.4694}{s^2 + 0.5914 s + 0.056}$$

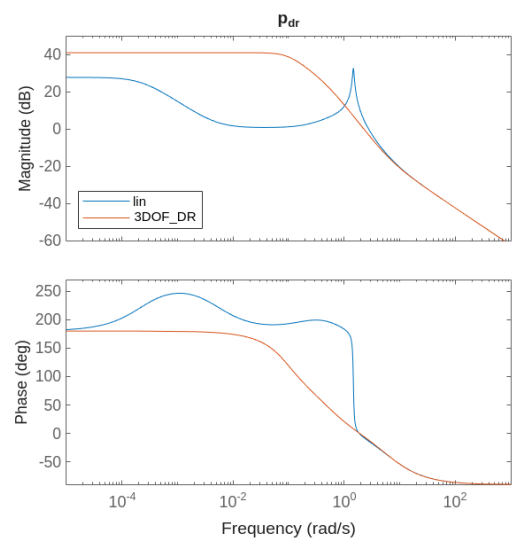
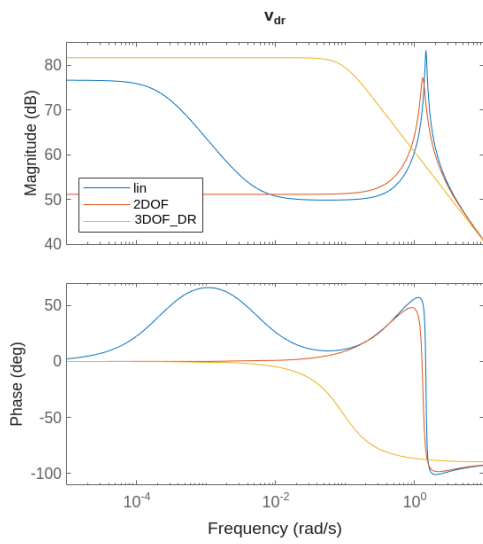
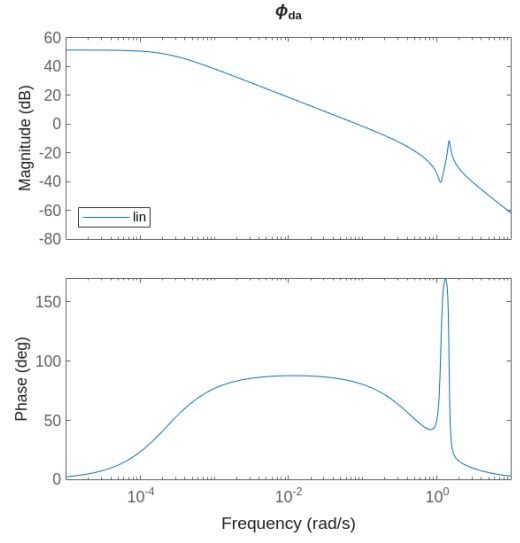
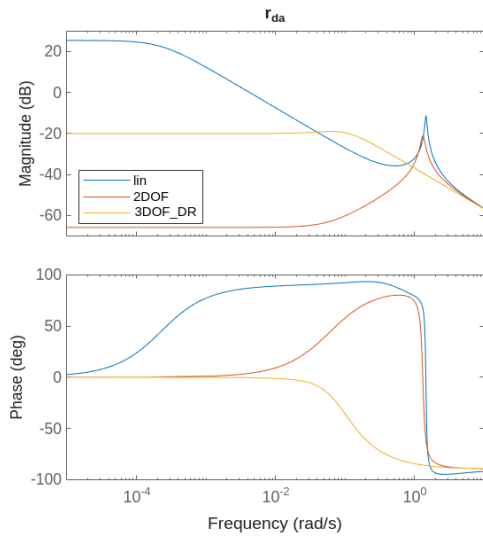
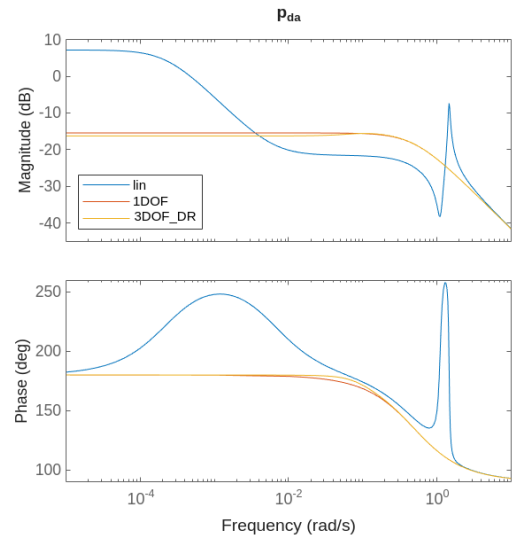
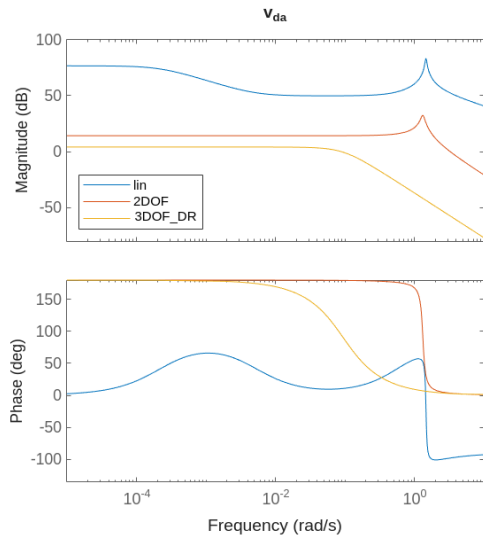
Continuous-time transfer function.
Model Properties

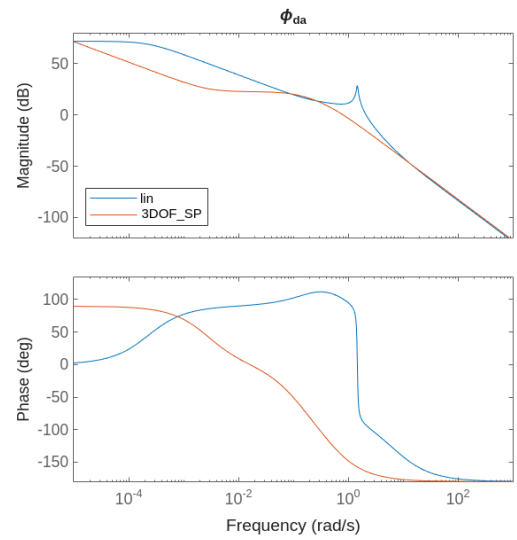
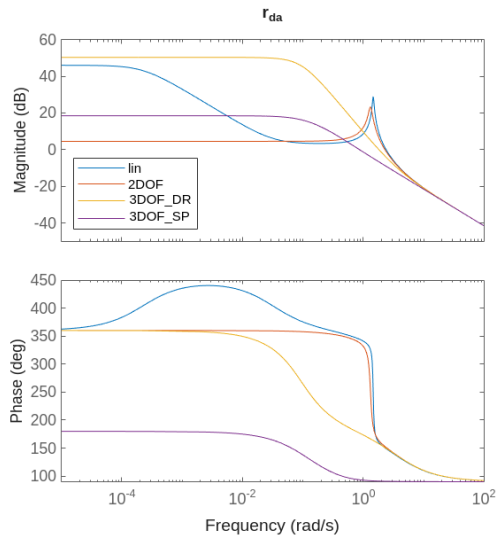
phi_dr_3DOF_SP =

$$\frac{0.766 s - 0.002109}{s^3 + 0.5914 s^2 + 0.056 s}$$

Continuous-time transfer function.
Model Properties

bode Plots





Root Locus Plots

