

Console Output :

Uncompensated system Transfer function

G1 =

$$\frac{5}{0.5 s^3 + 1.5 s^2 + s}$$

Continuous-time transfer function.

phie_req =

45

T =

w_at_135 =

18.0505

0.5540

beta =

g_un_w =

7.4989

17.5000

Lag Compensator Transfer function

GC =

$$\frac{18.05 s + 1}{135.4 s + 1}$$

Compensator Transfer function G_eq

Geq =

$$\frac{90.25 s + 5}{67.68 s^4 + 203.5 s^3 + 136.9 s^2 + s}$$

Continuous-time transfer function.

