Meeting

Po Hsun Wu

December 19, 2022

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Progress report

Table 1: Step performance

	β	φ
Rise time(sec)	μ =0.4032 σ =0.3421	μ =0.3509 σ =0.3151
2% Settling time(sec)	μ =8.4321 σ =2.5834	μ =7.3648 σ =3.3271
5% Settling time(sec)	NaN	NaN
Overshoot(%)	μ = 8.9073 σ =17.9520	μ = 8.6334 σ =20.2596
Undershoot(%)	μ = 2.0701 σ =14.9125	μ =2.0323 σ =13.5009
Steady-state error(deg)	μ = 0.2864 σ =0.1891	μ =0.0178 σ =0.2292

Progress report

• ϕ settling time $\mu = 7.3648$ $\sigma = 3.3271$

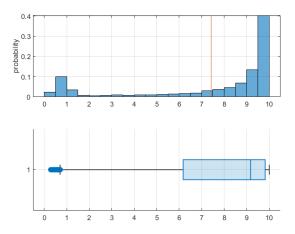


Figure 1: ϕ 2% settling time

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• ϕ overshoot $\mu = 8.6334$ $\sigma = 20.2596$

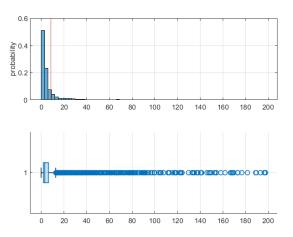


Figure 2: ϕ overshoot

Zoom In

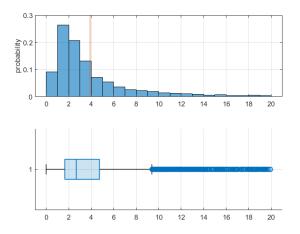


Figure 3: Zoom in the plot

