ControlSysLab - Rapport Complet avec Figures

Généré le 06/08/2025 à 16h29

RAPPORT COMPLET - ControlSysLab

=== MATRICES D'ENTRÉE ===
A =
[[0 1]
[-2 -3]]
B =
[[0]
[1]]
C =
[[1 0]]
D =
[[0]]
=== CONTRÔLABILITÉ ===
Wc =
[[0. 1.]
[13.]]
=== OBSERVABILITÉ ===
Wo =
[[1. 0.]
[0. 1.]]

=== PID ===

Kp = 2, Ki = 1, Kd = 0.5

Erreur (5 premiers): [1. 0.95561474 0.91041307 0.865261 0.82082111]

Fonction de transfert (boucle ouverte) :

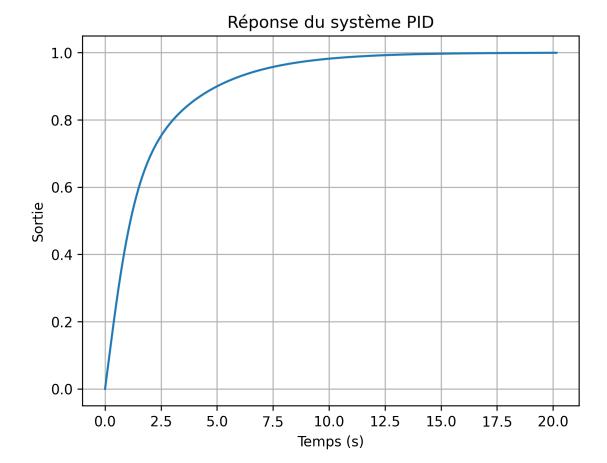
<TransferFunction>: sys[21]

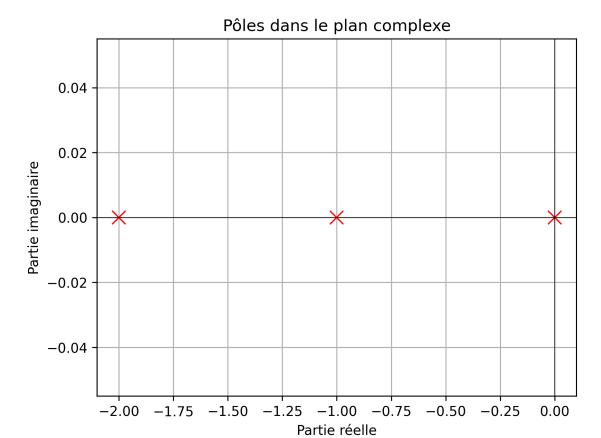
Inputs (1): ['u[0]']

Outputs (1): ['y[0]']

 $0.5 \text{ s}^2 + 2 \text{ s} + 1$

 $s^3 + 3 s^2 + 2 s$





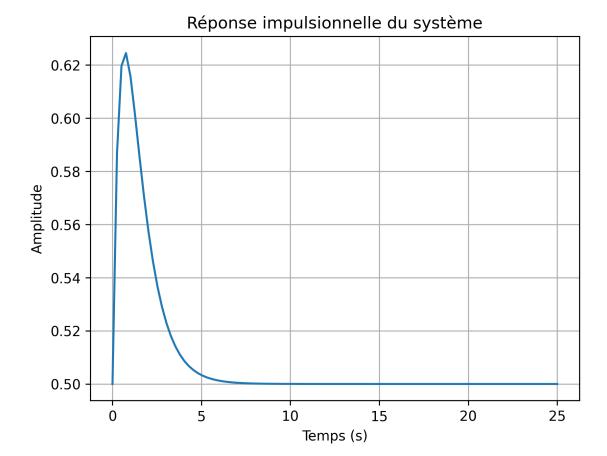


Figure : bode_plot.png

