

Réglage de PID fractionnaire pour une Réponse désiré en boucle fermée

Nadir FERGANI

Soutenu en: 2009

Abstract : This work primarily concerns the techniques of the tuning of fractional order controller, we proposed a new tuning techniques are proposed for the fractional order PI^λD^μ controller which consists in returning the closed loop system equivalent to a desired system of a fractional nature, ,like an example of application one to used the PI^λD^μ controller to regulate by the proposed method in the order in position of the DC motor, the results obtained are compared with this one obtained with a classical PID for shown the effectiveness, the robustness and the interest of the use of PI^λD^μ control .

Keywords : Bode's ideal function, fractional PI^λD^μ controller, iso-damping property