

EE5101: Linear Systems

Mini Project Report

Name:	Liu Weihao
Matriculation number:	A0232935A
Email address:	liuweihao@u.nus.edu
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Abstract

Linear system play an important role in modern industry. In this report, we build a dynamic module for our target plant, the continuous-flow stirred tank reactor. And design some controllers via different methods, such as pole placement, LQR controller and decoupling controller, to satisfy the design specifications. Then we use servo controller so that the system will reach our setting point. Besides, we have discussed the impact of different parameters on the system.