

Assignment 2: MinSeg

February 23, 2018

Instructions

This alternative assignment builds on the lab developed by Automatic Control in Linköping: “MinSeg balancing using pole-placement“. You are supposed to go through the manual and do the tasks specified below.

Tasks

The following preparations and tasks needs to be solved:

Preparation: 5, 9-10

Task: 1-7, 11-18, 20-21

But you are not required to do the following parts:

Preparation: 1-4, 6-8, 11

Task: 8-10,19

Challenge: 1,2

Hand in

A written report, following the same instructions as the standard Assignment 2, is required for passing this part of the course. This report should contain answers and well motivated solutions to all the questions asked in the specified tasks, as well as relevant figures and plots.

If you signed up to working two people on one MinSeg, then you are allowed to hand in one report as a group. However, both group members must understand every part of the report and be ready to explain the report and the results.

We might also ask you to demonstrate that your final controller works and is able to balance the MinSeg.

Finally, you need to hand back the MinSeg to the instructors.