

Control Challenges: Solutions

Iacopo Moles

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1 Introduction

1.1 What is this?

This is a collection of write ups on how to solve the various problems presented by [Github user](#) “Janismac”.

[Open Simulation](#)

 Tip with Title

This is an example of a callout with a title.

2 Block With Friction

Position Control with friction. Using Pole Placement + PD.

2.1 State Space representation

We can convert the set of ODE into a state space representation. The final bode plot of the block position is:

There is a slight difference between the `lsim` simulation and the FMU simulation. I need to recheck some stuff.

[Open Simulation](#)