MF2007 - Workshop A

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Parameter identification

This section covers the methods behind finding the parameters to enter into the model to get the biggest similarity to the physical plant.

Level 1

To identify the parameters, a series of tests are run to evaluate the model. The model performance is plotted next to the performance of the real plant to compare. Firstly, a model with a linear friction is used, that is no Karnop model. To identify the linear friction, a square wave with amplitude of a frequency in the middle of the available volt spectrum is used, more specifically 10 V.