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DESCRIPTION

The folder contains the files used in the Controls Tech Talk titled "Understanding Kalman Filters, Part 6: How to use a Kalman Filter in Simulink".

This folder contains the following items:

1-'Kalman_Filter_Simulink_Example.slx': A Kalman filter is used to estimate states of a simple pendulum system.

2-'Kalman_Filter_Simulink_Example_params.m': Parameters of the pendulum system and Kalman filter.

3-'MeldasLibrary.slx': Custom library used in the Controls Tech Talk.

4-'Pendulum.jpg': Mask icon used in the pendulum block.

INSTRUCTIONS TO RUN THE SIMULINK MODEL:

Download the folder titled "How to use a Kalman Filter in Simulink" to your computer and set it as your MATLAB path. Run the 'Kalman_Filter_Simulink_Example_params.m' m-file to set up the parameters for simulation. Run 'Kalman_Filter_Simulink_Example.slx' to simulate the example.