

Code_Documentation file – last update 25 Feb 2017

FF_Demo_Codes_Feb_2017 contains the following files:

1. ff_demo_set_up.m – run this first – places variables into the Matlab workspace for use by Simulink files.
2. Feedforward_demo_Feb25_2017_slx
 - Implements the first order system with FF as described in Lecture 8
 - Manual switches allow changing of input signal – system is set for trapezoidal
 - Both systems (w and w/o ff) contain a step on-off disturbance directly at the input $u(t)$ after ff applied - look in subsystem
 - Demonstrates the ff allows tracking of input signal and compensates for disturbance – look at outputs and error signals
3. Feedforward_variations_Feb25_2017_slx
 - This compares the output of a system with feedforward if the ff gain is +/-10% of the nominal value.
 - The system used is the same as item 2 but without comparison to the input waveform or non-ff system, i.e. disturbance is present.
 - System is set up for square wave input you should try other inputs via switches.
 - The gains variations are hardcoded in the subsystem feedforward gain blocks blocks.