How to use the model?

This model is based on Matlab/Simulink/Stateflow, please install them in advance.

1. Run the file named 'Initialization'. This file includes configuration parameters, initial states, inputs and disturbances of Motor-Transmission Drive System. For model checking, user could change the initial states and disturbances with reference to their pre-defined domains.

2. Run the file named 'Mesh'. The default simulation duration is set to 0.5 second, and user could change this if needed. When the simulation is done, user could see the trajectory of sleeve. If user needs to see the state variables along the time, please double click virtual oscilloscopes.

We specify the meshing process of Motor-Transmission Coupled Drive System in ARCH paper, and user can find more information about the meshing model in this paper. If user has any further questions about this model, please contact Hongxu Chen.

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