Simulink® Parameter Estimation Release Notes

The “Simulink Parameter Estimation 1.1.1 Release Notes” on page 1-1 describe the changes introduced in the most recent version of Simulink Parameter Estimation. The following topics are discussed in the Release Notes:

- “New Features” on page 1-2
- “Major Bug Fixes” on page 1-3

If you are a new user of Simulink Parameter Estimation, see “Introduction to Simulink Parameter Estimation” on page 2-2.

Printing the Release Notes

If you would like to print the Release Notes, you can link to a PDF version.

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New Features

New features and enhancements are introduced in Simulink Parameter Estimation Version 1.1.1.

You can now

- Estimate parameters of SimMechanics, SimPowerSystems, and SimDriveline models
- Use the Accelerator more in Simulink for faster simulations

Eleven new demos have been added in various application areas, available from the command line by typing `demos`.

Major Bug Fixes

Simulink Parameter Estimation 1.1.1 includes important bug fixes made since Version 1.0. You can see a list of major 1.1.1 bug fixes on the MathWorks Web site.

If you are viewing these release notes in PDF form on the MathWorks Web site, please refer to the HTML form of the release notes on the MathWorks Web site and use the link provided.

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Introduction to Simulink Parameter Estimation

This section provides a brief overview of the Simulink Parameter Estimation, which is being introduced in Release 14.

About Simulink Parameter Estimation

Simulink Parameter Estimation is a tool for estimating parameters and initial states of a Simulink model using empirical input and output data pairs.

This tool provides a graphical user interface (GUI) that simplifies the mechanics of the estimation process. There is also a command line interface if you do not want to use the GUI.

Features

Key features of Simulink Parameter Estimation include the ability to

- Estimate parameters from transient
- Estimate initial states (initial conditions)
- Compare data from the model to empirical data (during the estimation of parameters)
- Validate models (after completing the estimation of parameters)