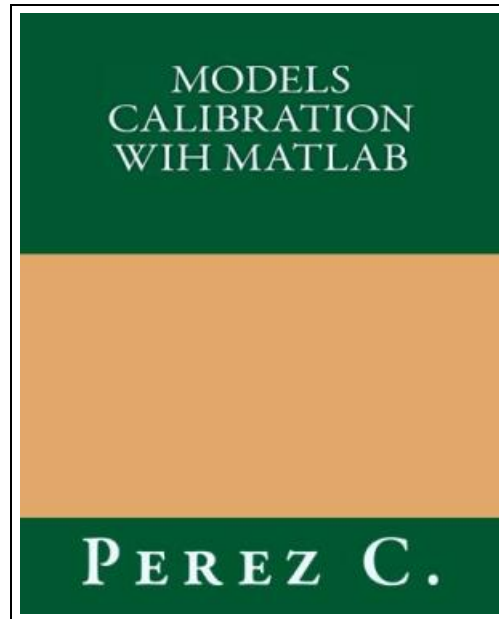


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The MATLAB software include efficient tools for optimization and calibration models. The Model-Based Calibration Toolbox product contains tools for design of experiment, statistical modeling, and calibration of complex systems. The toolbox has two main apps: Model Browser for design of experiment and statistical modeling and CAGE Browser for analytical calibration. CAGE (CALibration GEneration) is an easy-to-use graphical interface for calibrating lookup tables for your electronic control unit (ECU). As engines get more complicated, and models of engine behavior more intricate, it is increasingly difficult to rely on intuition alone to calibrate lookup tables. CAGE provides analytical methods for calibrating lookup tables. CAGE uses models of the engine control subsystems to calibrate lookup tables. With CAGE you fill and optimize lookup tables in existing ECU software using models from the Model Browser part of the Model-Based Calibration Toolbox product. From these models, CAGE builds steady-state ECU calibrations. CAGE also compares lookup tables directly to experimental data for validation. CAGE can optimize calibrations with reference to models, including single- and multi-objective optimizations, sum optimizations, user-defined optimizations, and automated tradeoff. You can compare your calibrations to experimental data for validation. For example, after completing a calibration, you can import experimental data from a spreadsheet. You can use CAGE to compare your calibration to the data. This book develops the following topics: - Model-Based Calibration Toolbox - What Is CAGE? - Set Up Calibrations - Import Models and Calibration Items - Setting Up Models - Setting Up Tables - Creating Tables from a Model - Calibration Manager - Importing and Exporting Calibrations - Feature Calibrations - Import a Strategy from Simulink - Tradeoff Calibration - Point-by-Point Model Tradeoffs.



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