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Operation Research with MATLAB. Models to Design of Experiments (Paperback)

By Perez C

Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. In MATLAB you can work with design of experiments, define optimal test plans, automatically fit statistical models, and generate calibrations and lookup tables for complex high-degree-of-freedom engines that would otherwise require exhaustive testing using traditional methods. Calibrations can be optimized at individual operating points or over drive cycles to identify the optimal balance of engine fuel economy, performance, and emissions. Using apps or MATLAB(R) functions, you can automate the calibration process for similar engine types. The Model Browser is a flexible, powerful, intuitive graphical interface for building and evaluating experimental designs and statistical models: - Design of experiment tools can drastically reduce expensive data collection time. - You can create and evaluate optimal, space filling, and classical designs, and constraints can be designed or imported. - Hierarchical statistical models can capture the nature of variability inherent in engine data, accounting for variation both within and between tests. - The Model Browser has powerful, flexible tools for building, comparing, and evaluating statistical models and experimental designs. - There is an extensive library of prebuilt model types and the capability to build userdefined...



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