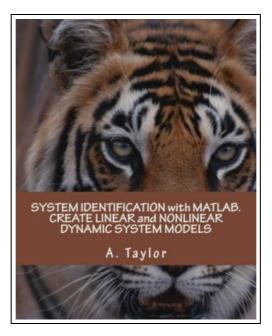
System Identification with MATLAB. Create Linear and Nonlinear Dynamic System Models (Paperback)



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Reviews

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SYSTEM IDENTIFICATION WITH MATLAB. CREATE LINEAR AND NONLINEAR DYNAMIC SYSTEM MODELS (PAPERBACK)



Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. System Identification Toolbox provides MATLAB functions, Simulink blocks, and an app for constructing mathematical models of dynamic systems from measured input-output data. It lets you create and use models of dynamic systems not easily modeled from first principles or specifications. You can use time-domain and frequency-domain input-output data to identify continuous-time and discrete-time transfer functions, process models, and state-space models. The toolbox also provides algorithms for embedded online parameter estimation. The toolbox provides identification techniques such as maximum likelihood, prediction-error minimization (PEM), and subspace system identification. To represent nonlinear system dynamics, you can estimate Hammerstein-Weiner models and nonlinear ARX models with wavelet network, tree-partition, and sigmoid network nonlinearities. The toolbox performs grey-box system identification for estimating parameters of a user-defined model. You can use the identified model for system response prediction and plant modeling in Simulink. The toolbox also supports time-series data modeling and time-series forecasting. The most important content that this book provides are the following: -System Identification Overview -What Is System Identification? - About Dynamic Systems and Models - System Identification Requires Measured Data - Building Models from Data - Black-Box Modeling -Grey-Box Modeling -Evaluating Model Quality -When to Use the App vs. the Command Line -System Identification Workflow -Commands for Model Estimation -Linear Model Identification -Identify Linear Models Using System Identification App -Preparing Data for System Identification -Saving the Session -Estimating Linear Models Using Quick Start -Estimating Linear Models -Viewing Model Parameters -Exporting the Model to the MATLAB Workspace -Exporting the Model to the Linear System Analyzer -Identify Linear Models Using the Command Line -Preparing Data -Estimating Impulse Response Models -Estimating Delays in the Multiple-Input System -Estimating Model Orders Using an ARX Model Structure -Estimating Transfer Functions -Estimating Process Models -Estimating Black-Box...

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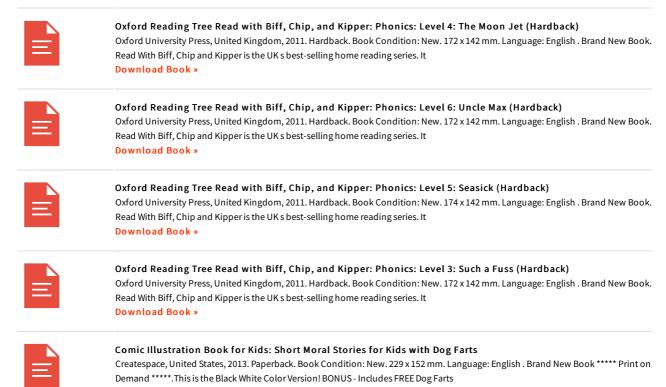
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