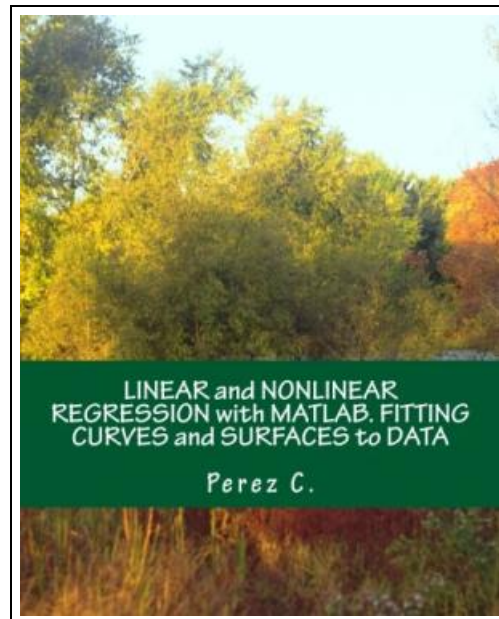


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Reviews

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Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. MATLAB allows to work with linear and nonlinear regression models efficiently. It has tools that contemplate the phases of estimation, diagnosis and prediction. MATLAB Curve Fitting Toolbox lets you perform exploratory data analysis, preprocess and post-process data, compare candidate models, and remove outliers. You can conduct regression analysis using the library of linear and nonlinear models provided or specify your own custom equations. The library provides optimized solver parameters and starting conditions to improve the quality of your fits. The toolbox also supports nonparametric modeling techniques, such as splines, interpolation, and smoothing. After creating a fit, you can apply a variety of post-processing methods for plotting, interpolation, and extrapolation; estimating confidence intervals; and calculating integrals and derivatives. Curve Fitting Toolbox software allows you to work in two different environments: - An interactive environment, with the Curve Fitting app and the Spline Tool - A programmatic environment that allows you to write object-oriented MATLAB code using curve and surface fitting methods This book develops the following topics: - Curve Fitting - Surface Fitting - Spline Fitting - Parametric Fitting with Library Models - Polynomial Models - Exponential Models - Fourier Series Models - Gaussian Models - Power Series Models - Rational Models - Sum of Sines Models - Weibull Distribution Models - Least-Squares Fitting - Linear Least Squares - Weighted Least Squares - Robust Least Squares - Nonlinear Least Squares - Robust Fitting - Custom Linear and Nonlinear Regression - Nonparametric Fitting - Interpolation and Smoothing - Smoothing Splines - Filtering and Smoothing Data - Fit Postprocessing - Explore and Customize Plots - Remove Outliers - Select Validation Data - Evaluate a Curve Fit - Evaluate a Surface Fit - Compare Fits Programmatically...

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