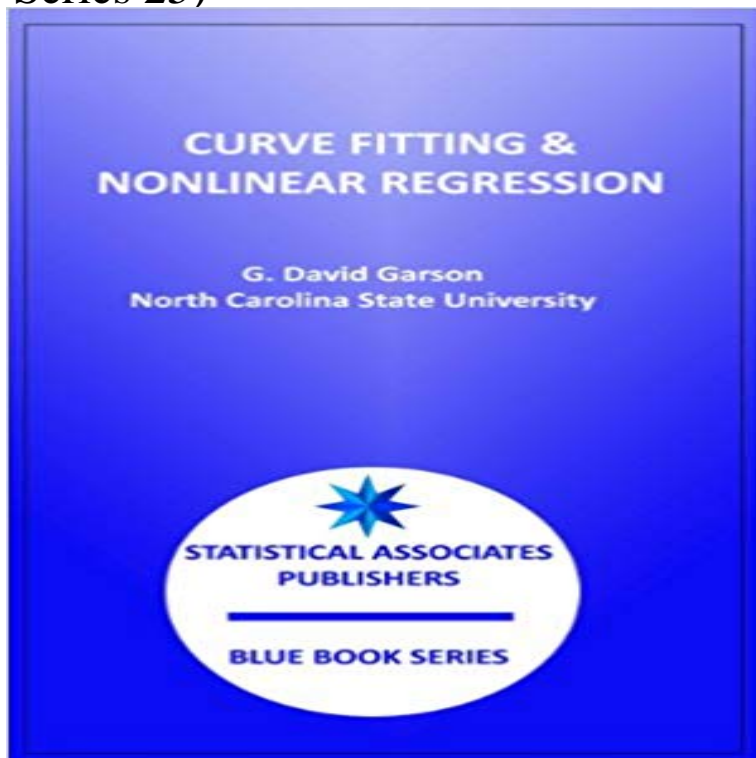


Curve Fitting & Nonlinear Regression (Statistical Associates Blue Book Series 25)



CURVE FITTING & NONLINEAR REGRESSION Overview Both curve fitting and nonlinear regression are methods of finding a best-fit line to a set of data points even when the best-fit line is nonlinear. Below, curve-fitting is discussed with respect to the SPSS curve estimation module, obtained by selecting Analyze > Regression > Curve Estimation. This module can compare linear, logarithmic, inverse, quadratic, cubic, power, compound, S-curve, logistic, growth, and exponential models based on their relative goodness of fit where a single dependent variable is predicted by a single independent variable or by a time variable. As such it is a useful exploratory tool preliminary to selecting multivariate models in generalized linear modeling, which supports nonlinear link functions. (Generalized linear modeling is treated in a separate Statistical Associates Blue Book volume). The province of nonlinear regression is fitting curves to data which cannot be fitted using nonlinear transforms of the independent variables or by nonlinear link functions which transform the dependent variable. This type of data is intrinsically nonlinear and requires approaches treated in a second section of this e-book, which covers nonlinear regression in SPSS, obtained by selecting Analyze > Regression > Nonlinear. Coverage: SPSS. The full content is now available from Statistical Associates Publishers.

<http://www.statisticalassociates.com>. Below is the unformatted table of contents. CURVE FITTING AND NONLINEAR REGRESSION Table of Contents Overview 5 Curve Fitting 5 Key Concepts and Terms 5 Curve Estimation dialog in SPSS 5 Models 6 Statistical output for the SPSS curve estimation module 19 Comparative fit plots 19 Regression coefficients 20 R-square 21 Analysis of

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