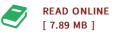


Chemometrics

By Otto, Matthias

Wiley-VCH, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1 What is Chemometrics? 1.1 The Computer-based Laboratory. 1.2 Statistics and Data Interpretation. 1.3 Computer-based Information Systems/Artificial Intelligence. 1.4 General Reading. 2 Basic Statistics. 2.1 Descriptive Statistics. 2.2 Statistical Tests. 2.3 Analysis of Variance. 2.4 General Reading. 3 Signal Processing and Time-Series Analysis. 3.1 Signal Processing. 3.2 Times Series Analysis. 3.3 General Reading. 4 Optimization and Experimental Design. 4.1 Objective Functions and Factors. 4.2 Experimental Designs and Response Surface Methods. 4.2.1 Fundamentals. 4.2.2 Two-level designs: screening designs. 4.2.3 Three-level designs: response surface designs. 4.3 Sequential Optimization: Simplex Method. 4.4 General Reading. 5 Pattern Recognition and Classification. 5.1 Preprocessing of Data. 5.2 Unsupervised Methods. 5.2.1 Factorial methods. 5.2.2 Cluster analysis. 5.2.3 Graphical methods. 5.3 Supervised Methods. 5.3.1 Linear learning machine. 5.3.2 Discriminant analysis. 5.3.3 -nearest neighbor method. 5.3.4 SIMCA. 5.3.5 Support vector machines. 5.4 General Reading. 6 Modeling. 6.1 Univariate Linear Regression. 6.2 Multiple Linear Regression. 6.2.1 Ordinary test squares regression. 6.2.2 Biased parameter estimations: PCR and PLS. 6.2.3 Applications for multicomponent analysis. 6.2.4 Regression diagnostics. 6.2.5 Multiway regression (modeling). 6.3 Nonlinear Methods. 6.3.1 Nonlinear regression analysis. 6.3.2 Nonparametric methods. 6.4 General Reading. 7 Analytical...



Reviews

I just started out reading this ebook. It is rally exciting throgh reading through time. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- Leonie Collins

This publication will never be straightforward to get going on looking at but really fun to see. This can be for all those who statte that there had not been a worth looking at. You wont really feel monotony at at any moment of your own time (that's what catalogs are for about should you request me). -- Cale Hansen Sr.

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