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Expert systems allow scientists to access, manage, and apply data and specialized knowledge from various disciplines to their own research. Expert Systems in Chemistry Research explains the general scientific basis and computational principles behind expert systems and demonstrates how they can improve the efficiency of scientific workflows and support decision-making processes. Focused initially on clarifying the fundamental concepts, limits, and drawbacks of using computer software to approach human decision making, the author also underscores the importance of putting theory into practice. The book highlights current capabilities for planning and monitoring experiments, scientific data management and interpretation, chemical characterization, problem solving, and methods for encoding chemical data. It also examines the challenges as well as requirements, strategies, and considerations for implementing expert systems effectively in an existing laboratory software environment. Expert Systems in Chemistry Research covers various artificial intelligence technologies used to support expert systems, including nonlinear statistics, wavelet transforms, artificial neural

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This book introduces "Astrostatistics" as a subject in its own right with rewarding examples, including work by the authors with galaxy and Gamma Ray Burst data to engage the reader. This includes a comprehensive blending of Astrophysics and Statistics. The first chapter's coverage of preliminary concepts and terminologies for astronomical phenomenon will appeal to both Statistics and Astrophysics readers as helpful context. Statistics concepts covered in the book provide a methodological framework. A unique feature is the inclusion of different possible sources of astronomical data, as well as software packages for converting the raw data into appropriate forms for data analysis. Readers can then use the appropriate statistical packages for their particular data analysis needs. The ideas of statistical inference discussed in the book help readers determine how to apply statistical tests. The authors cover different applications of statistical techniques already developed or specifically introduced for astronomical problems, including regression techniques, along with their usefulness for data set problems related to size and dimension. Analysis of

missing data is an important part of the book because of its significance for work with astronomical data. Both existing and new techniques related to dimension reduction and clustering are illustrated through examples. There is detailed coverage of applications useful for classification, discrimination, data mining and time series analysis. Later chapters explain simulation techniques useful for the development of physical models where it is difficult or impossible to collect data. Finally, coverage of the many R programs for techniques discussed makes this book a fantastic practical reference. Readers may apply what they learn directly to their data sets in addition to the data sets included by the authors.

This book provides researchers, clinicians, and students with a useful overview of measuring client change in clinical practice. It reviews the history, conceptual foundations, and current status of trait- and state-based assessment models and approaches, exploring their strengths and limitations for measuring change across therapy sessions. Meier shows how to effectively interpret and use measurement and assessment data to improve treatment evaluation and clinical care. A series of exercises guides the reader to gather information about particular tests and evaluate their suitability for intended testing purposes.

This new edition of a successful, bestselling book continues toprovide you with practical information on the use of statisticalmethods for solving real-world problems in complex industrialenvironments. Complete with examples from the chemical andpharmaceutical laboratory and manufacturing areas, this thoroughlyupdated book clearly demonstrates how to obtain reliable results bychoosing the most appropriate experimental design and dataevaluation

methods. Unlike other books on the subject, Statistical Methods inAnalytical Chemistry, Second Edition presents and solves problemsin the context of a comprehensive decision-making process under GMPrules: Would you recommend the destruction of a $100,000 batch ofproduct if one of four repeat determinations barely fails thespecification limit? How would you prevent this from happening inthe first place? Are you sure the calculator you are using istelling the truth? To help you control these situations, the newedition: * Covers univariate, bivariate, and multivariate data * Features case studies from the pharmaceutical and chemicalindustries demonstrating typical problems analysts encounter andthe techniques used to solve them * Offers information on ancillary techniques, including a shortintroduction to optimization, exploratory data analysis, smoothingand computer simulation, and recapitulation of errorpropagation * Boasts numerous Excel files and compiled Visual Basic programs-nostatistical table lookups required! * Uses Monte Carlo simulation to illustrate the variabilityinherent in statistically indistinguishable data sets Statistical Methods in Analytical Chemistry, Second Edition is anexcellent, one-of-a-kind resource for laboratory scientists andengineers and project managers who need to assess data reliability;QC staff, regulators, and customers who want to frame realisticrequirements and specifications; as well as educators looking forreal-life experiments and advanced students in chemistry andpharmaceutical science. From the reviews of Statistical Methods in Analytical Chemistry,First Edition: "This book is extremely valuable. The authors supply many veryuseful programs along with their source code. Thus, the user cancheck the authenticity of the result and gain a greaterunderstanding of the algorithm from the code. It should be on thebookshelf of every analytical chemist."-Applied Spectroscopy "The authors have compiled

an interesting collection of data toillustrate the application of statistical methods . . . includingcalibrating, setting detection limits, analyzing ANOVA data,analyzing stability data, and determining the influence of errorpropagation."-Clinical Chemistry "The examples are taken from a chemical/pharmaceutical environment,but serve as convenient vehicles for the discussion of when to usewhich test, and how to make sense out of the results. Whilepractical use of statistics is the major concern, it is put intoperspective, and the reader is urged to use plausibilitychecks."-Journal of Chemical Education "The discussion of univariate statistical tests is one of the morethorough I have seen in this type of book . . . The treatment oflinear regression is also thorough, and a complete set of equationsfor uncertainty in the results is presented . . . The bibliographyis extensive and will serve as a valuable resource for thoseseeking more information on virtually any topic covered in thebook."-Journal of American Chemical Society "This book treats the application of statistics to analyticalchemistry in a very practical manner. [It] integrates PC computingpower, testing programs, and analytical know-how in the context ofgood manufacturing practice/good laboratory practice (GMP/GLP) . ..The book is of value in many fields of analytical chemistry andshould be available in all relevant libraries."-Chemometrics andIntelligent Laboratory Systems

A Primer on Partial Least Squares Structural Equation Modeling (PLS-SEM), by Hair, Hult, Ringle, and Sarstedt, provides a concise yet very practical guide to understanding and using PLS structural equation modeling (PLS-SEM). PLS-SEM is evolving as a statistical modeling technique and its use has increased exponentially in recent years within a variety of disciplines, due to the recognition that PLS-SEM's

distinctive methodological features make it a viable alternative to the more popular covariance-based SEM approach. This text—the only comprehensive book available to explain the fundamental aspects of the method—includes extensive examples on SmartPLS software, and is accompanied by multiple data sets that are available for download from the accompanying website (www.pls-sem.com).

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