Chemometrics: Statistics and Computer Application in Analytical Chemistry

By Matthias Otto

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Review
"...I am sure that I will confidently hand this book out to analytical chemists who stop by for guidance." (*Technometrics*, Vol. 42, No. 4, May 2001)

"...I have a favorable opinion of the text and would be prepared to use it as a primary reference..." (Microchemical Journal, Vol. 68, 2001)

From the Back Cover
Matthias Otto Chemometrics Statistics and Computer Application in Analytical Chemistry Chemometrics — easy to understand! Chemometrics are becoming more and more important for the evaluation of analytical data. Work in a modern lab is almost unthinkable without the use of statistical methods and computer-based data analysis. This new textbook is especially suited to give you a comprehensive overview of all areas of chemometrics. Based on the most important fundamentals of statistics, the author provides a modern approach to signal processing, designing and optimizing experiments, pattern recognition and classification as well as modeling simple and nonlinear relationships. Analytical databases are covered as well as applications of artificial intelligence, fuzzy theory, neural networks, or genetic algorithms. Numerous worked examples and helpful comments in the margin make reading and understanding easy. Students of chemistry, pharmacy, biochemistry, or ecology will find everything they need to know about chemometrics. Also scientists in industry and research will find this book a useful introduction. Matthias Otto has offered courses on chemometrices for many years and has held lectures at leading universities.

About the Author
Matthias Otto is Professor of Analytical Chemistry at the TU Bergakademie Freiberg in Germany. He was born in Dresden (Germany) and did all his studies at the University of Leipzig. In 1984 he moved to Freiberg (Germany) as a lecturer and was appointed full Professor there in 1987. Since that time he has taught almost all aspects of Analytical Chemistry mainly within the curricula of chemistry, applied sciences and geoecology and organizes courses in basic and advanced chemometrics. He is author and editor of successful textbooks in analytical chemistry.

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