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Environmental Chemometrics (Hardback)

By Grady Hanrahan

Taylor Francis Inc, United States, 2008. Hardback. Condition: New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. Multivariate, heterogeneous data has been traditionally analyzed using the one at a time variable approach, often missing the main objective of discovering the relationships among multiple variables and samples. Enter chemometrics, with its powerful tools for design, analysis, and data interpretation of complex environmental systems. Delineating the rigors of modern environmental analysis and how to effectively solve limitations through multivariate approaches, Environmental Chemometrics: Principles and Modern Applications provides an introduction and practical guide to chemometric methods used in environmental chemical analysis. The text begins with an overview of chemometrics in relation to quantitative environmental analysis and a review of descriptive statistical concepts. Building on this, the author covers environmental sampling considerations, experimental design and optimization techniques, multivariate analysis of environmental and chemical data sets, time series analysis, and quality assurance and method validation. Each chapter contains problem-oriented exercises and research applications from the author s own work and from other experts in the field. The author s presentation of the basic principles of these methods...



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