Record Nr. UNINA9910830057903321 Autore Einax J (Jürgen) **Titolo** Chemometrics in environmental analysis / / Jürgen W. Einax, Heinz W. Zwanziger, Sabine Geiss [[electronic resource]] Weinheim,: VCH Verlagsgesellschaft, c1997 Pubbl/distr/stampa **ISBN** 1-280-56080-0 9786610560806 3-527-60216-X Descrizione fisica 1 online resource (xix, 384 p.): ill., maps; Altri autori (Persone) ZwanzigerHeinz W GeissSabine 543/.0072 Disciplina Soggetti Chemometrics Environmental chemistry - Statistical methods Environmental chemistry - Mathematics Chemometrics - Statistical methods Environmental chemistry **Analytical Chemistry** Chemistry Physical Sciences & Mathematics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Bibliographic Level Mode of Issuance: Monograph Note generali Nota di bibliografia Includes bibliographical references and index. Sommario/riassunto J. W. Einax, H. W. Zwanziger S. Geis Chemometrics in Environmental Analysis Make the most of your data! This new title will serve both as an introduction and as a practical guide to those techniques of chemometrics which are applicable to environmental analysis. By describing the optimum methods of data analysis it will help all chemists in this field to save time and money. Because the authors demonstrate the most important chemometric methods with the aid of

numerous examples, the reader will learn to solve a given problem by use of the appropriate method. Applications range from sampling, through laboratory analysis, to evaluation. Interpretation of the findings is explained clearly. The text covers not only basic methods such as

univariate statistics, regression analysis, and statistical test planning, but also multivariate data analysis, for example, cluster analysis, principal components analysis, and factor and discriminant analysis. Case studies show the enormous possibilities, and the limits, of chemometric methods.; The book will help all environmental analytical scientists, even those with only a basic knowledge of mathematics, to optimize the evaluation and interpretation of the results of their measurements.