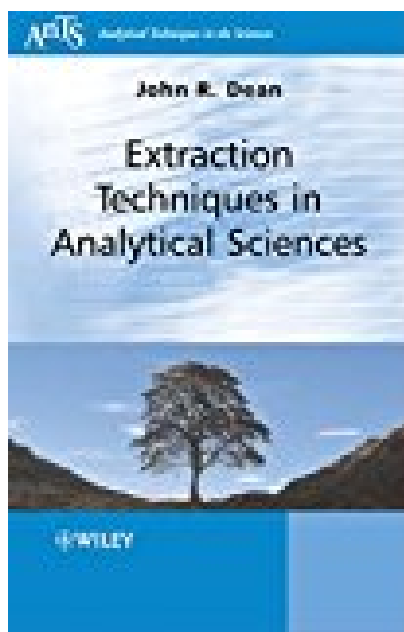


Extraction Techniques in Analytical Sciences



BOOK DETAILS

- Author : John R. Dean
- Pages : 308 Pages
- Publisher : Wiley
- Language : English
- ISBN : 0470772840

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BOOK SYNOPSIS

This book covers one of the most important areas in analytical sciences, extraction techniques for organic compounds in environmental and related matrices. This text discusses all of the key stages for analysing a sample for organic compounds from the initial sampling protocols, the range of different extraction techniques for solid, liquid and air samples through to the final chromatographic analysis. The topics covered include: Initial steps for solid, aqueous and air sampling. Extraction techniques for aqueous samples, including LLE, purge and trap, SPE, SPME, SBSE, SDME, membrane microextraction and MPES. Extraction techniques for solid samples, including Soxhlet, Soxtec, Shake-flask, sonication, PFE, MAE, SFE and MSPD. Extraction techniques for air sampling, including whole air, enrichment approaches and desorption techniques. Pre-concentration approaches for post-extraction. Practical aspects for chromatographic analysis (GC and HPLC) of organic compounds. Quality assurance aspects of analysis. Health and safety considerations. Key features include: Up-to-date information on the latest development in extraction techniques for organic compounds in environmental and food matrices. Ideal for use as a self-study guide, as the basis of a taught course or guided reading for new early-career researchers. Includes a guide for the reader to other sources of information. Extraction Techniques in Analytical Sciences is suitable for undergraduate and postgraduate students, as well as providing an invaluable starting point for individuals undertaking applied research in the fields of analytical, bioanalytical, environmental and food sciences. The Analytical Techniques in the Sciences series of books provides coverage of all of the major analytical techniques and their application in the most important areas of physical, life and materials science. Each text is presented in an open learning/distance learning style, in which the learning objectives are clearly identified. The readers understanding of the material is constantly evaluated by the use of self-assessment and discussion questions.

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