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Principles and Practice of Analytical Chemistry

By Fifield, F. W.

Book Condition: New. Publisher/Verlag: Springer, Berlin | There have been significant advances in both analytical instrumentation and computerised data handling during the five years since the third edition was published in 1990. Windows-based computer software is now widely available for instrument control and real-time data processing and the use of laboratory information and management systems (LIMS) has become commonplace. Whilst most analytical techniques have undergone steady improvements in instrument design, high-performance capillary electrophoresis (HPCE or CE) and two dimensional nuclear magnetic resonance spectrometry (2D-NMR) have developed into major forces in separation science and structural analysis respectively. The powerful and versatile separation technique of CE promises to rival high-performance liquid chromatography, particularly in the separation of low levels of substances of biological interest. The spectral information provided by various modes of 2D-NMR is enabling far more complex molecules to be studied than hitherto. The electrophoresis section of chapter 3 and the NMR section of chapter 9 have therefore been considerably expanded in the fourth edition along with a revision of aspects of atomic spectrometry (chapter 8). New material has been included on fluorescence spectrometry (chapter 9), the use of Kovats Retention Indices in gas chromatography (chapter 3) and...



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