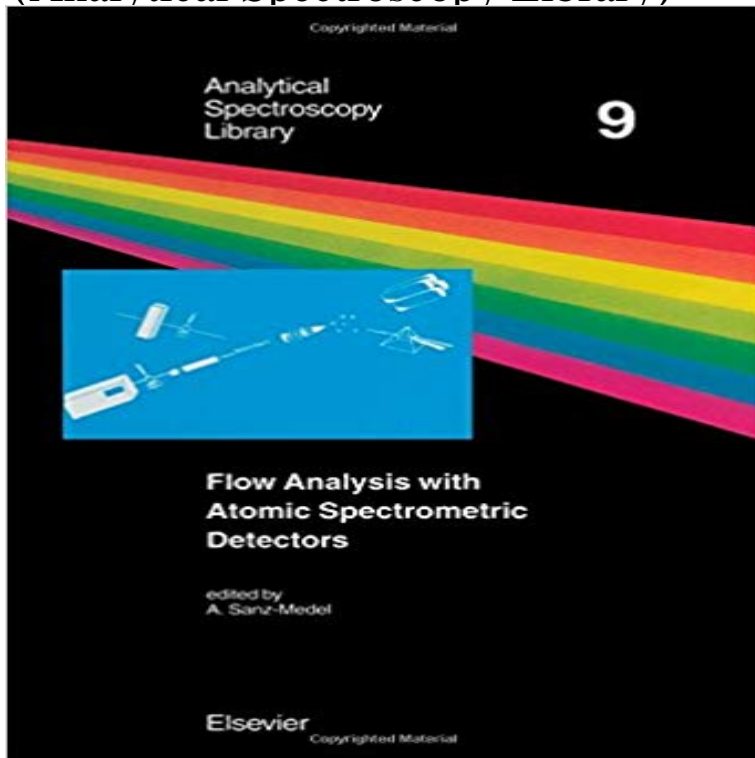


Flow Analysis with Atomic Spectrometric Detectors, Volume 9 (Analytical Spectroscopy Library)



Flow Analysis (FA) offers a very convenient and fast approach to enhance and automate preliminary steps of analysis (sample dissolution, pretreatments, preconcentrations, etc.) for atomic spectrometric detectors (ASD). Moreover, flow manifolds can ease the well-known problem of sample introduction/presentation to atomisers or even expand the classical scope of atomic/elemental information, characterizing atomic spectrometry, into the realm of molecules and metal-compounds analysis (e.g. by resorting to coupled separation techniques). All these facts could explain both the extraordinary interest for research and the great importance for practical problem-solving achieved nowadays by FA-ASD. On the threshold of the new millennium when plasma emission and mass spectrometry are so important and popular, the editor considered it timely to produce a book which covers all present atomic detectors and techniques where FA has been or can be advantageously employed. The book has been conceived in three separate parts: Part I gives the fundamental, instrumentation and potential of FIA as a most versatile sample presentation/introduction system for atomic spectrometry. Part II provides a modern account of fundamentals, possibilities and applications offered by flow analysis to atomic spectrometry for on-line sample pretreatments, separations and preconcentrations. Part III deals with applications of FA-ASD combinations to analytical problem-solving in most varied fields and situations. This monograph integrates the most popular aspects of FIA, its new developments for sample on-line treatments and on-line non-chromatographic and chromatographic separations (all typical flow analysis) in connection with all branches of analytical atomic spectrometry. Thus, academics,

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