



Field Ionization Mass Spectrometry: International Series of Monographs in Analytical Chemistry (Monographs in Analysis Chemistry)

Hans-D. Beckey

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Field Ionization Mass Spectrometry focuses on developments in field ionization (FI) mass spectrometry and describes its applications in physical chemistry, with emphasis on mass spectrometric problems. Physico-chemical problems as well as problems of chemical analysis are considered based on issues such as the probability of field ionization; field dissociation and charge distribution; kinetics of ion decomposition in high fields; negative ions; surface diffusion; activation of FI emitters; and elucidation of the structures of organic compounds.

This book is comprised of four chapters and begins with a short review on some of the most important directions of research in FI mass spectrometry. Two main fields of research are discussed: physico-chemical investigations and quantitative analysis or structural determination of organic substances. The next chapter is devoted to focusing and non-focusing sources of FI and covers topics such as methods for production of FI tips and thin wires, together with the use of tips and carbon filaments as FI emitters. The last two chapters focus on the application of the FI mass spectrometer to physico-chemical problems and to quantitative analysis of homologous series of organic substances such as alkanes, alkenes, alkynes, amines, and alcohols. This monograph is intended primarily for chemists and mass spectrometrists.

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