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	Photodissociation of Biomolecule Ions: Progress, Possibilities, and Perspectives Coming from Small-Ion Models 11 Chemical Dynamics Simulations of Energy Transfer and Unimolecular Decomposition in Collision-Induced Dissociation (CID) and Surface-Induced Dissociation (SID)12 Ion Soft Landing: Instrumentation, Phenomena, and Applications; 13 Electron Capture Dissociation and Other Ion-Electron Fragmentation Reactions; 14 Biomolecule Ion-Ion Reactions; PART III THERMOCHEMISTRY AND ENERGETICS; 15 Thermochemistry Studies of Biomolecules; 16 Energy and Entropy Effects in Gas-Phase Dissociation of Peptides and Proteins; INDEX
Sommario/riassunto	An extensive compilation of articles by leading professionals, this reference explains the fundamental principles of mass spectrometry as they relate to the life sciences. Topics covered include spectroscopy, energetics and mechanisms of peptide fragmentation, electron capture dissociation, ion-ion and ion-molecule reactions, reaction dynamics, collisional activation, soft-landing, protein structure and interactions, thermochemistry, and more. The book empowers readers to develop new ways of using these techniques.