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LC/TOF-MS IN THE ENVIRONMENTAL FIELD: WHEN DID IT START AND WHERE IS IT GOING?; CHAPTER 8 LIQUID CHROMATOGRAPHY AND AMBIENT IONIZATION TIME-OF-FLIGHT MASS SPECTROMETRY FOR THE ANALYSIS OF GENUINE AND COUNTERFEIT PHARMACEUTICALS CHAPTER 9 QUANTITATIVE ANALYSIS OF VETERINARY DRUG RESIDUES BY SUB 2- μ m PARTICULATE HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY COLUMNS AND TIME-OF-FLIGHT MASS SPECTROMETRY (UPLC-TOF) CHAPTER 10 INDUSTRIAL APPLICATIONS OF LIQUID CHROMATOGRAPHY TIME-OF-FLIGHT MASS SPECTROMETRY; CHAPTER 11 COMPREHENSIVE TOXICOLOGICAL AND FORENSIC DRUG SCREENING BY LC/TOF-MS; CHAPTER 12 APPLICATION OF UPLC/TOF-MS FOR RESIDUE ANALYSIS OF VETERINARY DRUGS AND GROWTH-PROMOTING AGENTS IN PRODUCTS OF ANIMAL ORIGIN CHAPTER 13 ACCURATE MASS MEASUREMENTS WITH A REFLECTRON TIME-OF-FLIGHT MASS SPECTROMETER AND THE DIRECT ANALYSIS IN REAL TIME (DART) INTERFACE FOR THE IDENTIFICATION OF UNKNOWN COMPOUNDS BELOW MASSES OF 500 Da CHAPTER 14 COMPARISON OF LC/TOF-MS AND LC/MS-MS FOR THE ANALYSIS OF 100 PESTICIDES IN FOOD: FINDING THE "CROSSOVER POINT"; INDEX

Sommario/riassunto

Time of flight mass spectrometry identifies the elements of a compound by subjecting a sample of ions to a strong electrical field. Illuminating emerging analytical techniques in high-resolution mass spectrometry, Liquid Chromatography Time-of-Flight Mass Spectrometry shows readers how to analyze unknown and emerging contaminants-such as antibiotics, steroids, analgesics-using advanced mass spectrometry techniques. The text combines theoretical discussion with concrete examples, making it suitable for analytical chemists, environmental chemists, organic chemists, medicinal chemists,
