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, university research chemists, and graduate and post-doctorate students.

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E. Michael Thurman, PHD, is a highly cited scientist in environmental chemistry and an Emeritus Scientist with the U.S. Geological Survey. He is currently Director of the Center for Environmental Mass Spectrometry at the University of Colorado, in Boulder, Colorado. His bibliography consists of more than 200 publications in environmental chemistry, including more than 100 journal articles, twenty proceedings and chapters, and eighty U.S. Geological Survey publications. Dr. Thurman has published five books dedicated to the chemical analysis of pesticides and natural products, sample preparation, and mass spectrometry.

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