Clear, comprehensive, and state of the art, the groundbreaking book on the emerging technology of direct analysis in real time mass spectrometry

Written by a noted expert in the field, Direct Analysis in Real Time Mass Spectrometry offers a review of the background and the most recent developments in DART-MS. Invented in 2005, DART-MS offers a wide range of applications for solving numerous analytical problems in various environments, including food science, forensics, and clinical analysis. The text presents an introduction to the history of the technology and includes information on the theoretical background, for example on the ionization mechanism. Chapters on sampling and coupling to different types of mass spectrometers are followed by a comprehensive discussion of a broad range of applications.

Unlike most other ionization methods, DART does not require laborious sample preparation, as ionization takes place directly on the sample surface. This makes the technique especially attractive for applications in forensics and food science. Comprehensive in scope, this vital text:

- Sets the standard on an important and emerging ionization technique
- Thoroughly discusses all the relevant aspects from instrumentation to applications
- Helps in solving numerous analytical problems in various applications, for example food science, forensics, environmental and clinical analysis
- Covers mechanisms, coupling to mass spectrometers, and includes information on challenges and disadvantages of the technique

Academics, analytical chemists, pharmaceutical chemists, clinical chemists, forensic scientists, and others will find this illuminating text a must-have resource for understanding the most recent developments in the field.

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Yiyang Dong is full professor and director of Food Safety & Risk Assessment Laboratory of Beijing University of Chemical Technology (BUCT) in Beijing, China. He is frequently invited as reviewer for journals such as Biosensors and Bioelectronics, Analyst, Analytical Methods, and Journal of Molecular Recognition.

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