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Nota di contenuto	Sample Preparation Techniques in Analytical Chemistry; CONTENTS; CONTRIBUTORS; PREFACE; CHAPTER 1 SAMPLE PREPARATION: AN ANALYTICAL PERSPECTIVE; 1.1. The Measurement Process; 1.1.1. Qualitative and Quantitative Analysis; 1.1.2. Methods of Quantitation; 1.2. Errors in Quantitative Analysis: Accuracy and Precision; 1.2.1. Accuracy; 1.2.2. Precision; 1.2.3. Statistical Aspects of Sample Preparation; 1.3. Method Performance and Method Validation; 1.3.1. Sensitivity; 1.3.2. Detection Limit; 1.3.3. Range of Quantitation; 1.3.4. Other Important Parameters; 1.3.5. Method Validation 1.4. Preservation of Samples1.4.1. Volatilization; 1.4.2. Choice of Proper Containers; 1.4.3. Absorption of Gases from the Atmosphere; 1.4.4. Chemical Changes; 1.4.5. Preservation of Unstable Solids; 1.5. Postextraction Procedures; 1.5.1. Concentration of Sample Extracts; 1.5.2. Sample Cleanup; 1.6. Quality Assurance and Quality Control

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 2.5. Solid-Phase Microextraction
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 3.3. Ultrasonic Extraction; 3.3.1. Selected Applications and Comparison with Soxhlet; 3.4. Supercritical Fluid Extraction; 3.4.1. Theoretical Considerations; 3.4.2. Instrumentation; 3.4.3. Operational Procedures; 3.4.4. Advantages/Disadvantages and Applications of SFE; 3.5. Accelerated Solvent Extraction; 3.5.1. Theoretical Considerations; 3.5.2. Instrumentation; 3.5.3. Operational Procedures; 3.5.4. Process Parameters; 3.5.5. Advantages and Applications of ASE; 3.6. Microwave-Assisted Extraction; 3.6.1. Theoretical Considerations
 3.6.2. Instrumentation

Sommario/riassunto

The importance of accurate sample preparation techniques cannot be overstated--meticulous sample preparation is essential. Often overlooked, it is the midway point where the analytes from the sample matrix are transformed so they are suitable for analysis. Even the best analytical techniques cannot rectify problems generated by sloppy sample pretreatment. Devoted entirely to teaching and reinforcing these necessary pretreatment steps, Sample Preparation Techniques in Analytical Chemistry addresses diverse aspects of this important measurement step. These include:

- * State-of-the-art