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Nota di contenuto	Frontmatter -- Preface / Matusiewicz, Henryk / Bulska, Ewa -- Contents -- Contributors -- Trace Elements in Environmental, Biological and Industrial Samples / Matusiewicz, Henryk / Bulska, Ewa -- Part I: Methodology in Trace Element Determination -- 1. Sample Preparation for Inorganic Trace Element Analysis / Matusiewicz, Henryk -- 2. Analytical Techniques for Trace Element Determination / Bulska, Ewa / Ruszczyska, Anna -- Part II: Matrices - Selected applications -- 3. Trace Elements in the Environment / Vassileva, Emilia / Mandjukov, Petko -- 4. Food Analysis and Speciation / Wrobel, Katarzyna / Wrobel, Kazimierz / Escobosa, Alma Rosa Corrales / Ojeda, Armando Gómez -- 5. Trace Element and Speciation Analysis of Biological Samples / Ruszczyska, Anna / Kurek, Eliza -- 6. Forensic Analysis of Microtraces / Dmitruk, Wiktor / Broek-Mucha, Zuzanna -- 7. Industrial Analysis and Speciation / Wycilik, Andrzej -- Part III: Inorganic and Bioinorganic Speciation Analysis at Trace Level -- 8. Quality of Results in Trace Element and Speciation Analysis / Bulska, Ewa -- 9. Sample Pretreatment for Trace Speciation Analysis / Krasnodbska-Ostrga, Beata / Sadowska, Monika / Biadu, Ewa -- 10. Solid-Phase Extraction in Fractionation of Trace Elements / Pohl, Pawel / Szymczycha-Madeja, Anna / Welna, Maja / Jamroz, Piotr -- Index

Sommario/riassunto

"Highly accurate chemical speciation and trace element analysis is of great importance in environmental, biological, food sciences, and forensic analysis, as well as in industry. Trace analysis via atomic spectrometry, mass spectroscopy or gas chromatography provides detailed information on chemical forms of elements and elemental trace analysis. This book comprehensively presents sampling and sample preparation, modern analytical techniques, timely application, and quality controlling"--
