



Trace Elemental Analysis of Metals: Methods and Techniques

Thomas R. Dulski

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This practical guide to the trace analysis of metals and alloys details minor, trace, and ultratrace methods; addresses the essential stages that precede measurement; and highlights the measurement systems most likely to be used by the pragmatic analyst. Features key material on inclusion and phase isolation, never-before published in any English-language reference! Designed to provide useful maps and signposts for metals analysts who must verify that stringent trace level compositional specifications have been met, Trace Elemental Analysis of Metals examines sampling, contamination control, isolation, and preconcentration covers molecular absorption, atomic absorption, atomic emission, mass spectrometry, and other measurement systems discusses the critical importance of inclusions and phases in obtaining accurate trace determinations explores quality issues surrounding method validation, analytical control verification, and reference material needs defines a style for treating results slightly above the noise limit of the instrumentation provides painstakingly referenced, step-by-step instructions for specific alloy systems and methodologies supplies a concise overview of the chemical and instrumental techniques widely available in industrial laboratories includes an easy-to-use glossary defining terms, specialized usage, and jargon related to trace work in metals and alloys reviews the conventions of reporting at, and near, the detection and quantification limits of a procedure and more! Offering direction to analysts seeking consistent data while working within the limits of available technology, Trace Elemental Analysis of Metals is a valuable guide suited to analytical, inorganic, and materials chemists; spectroscopists; environmental scientists; and upper-level undergraduate and graduate students in these disciplines.

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