

The significant role of trace elements present at the ppb (10⁻⁹ g/g), ng/g (10⁻⁸ g/g) and µg/g (10⁻⁷ g/g) levels in geological, biological, environmental and industrial materials has increasingly been recognized in science and technology. To detect and determine trace elements, we usually use modern optical, electrochemical and nuclear analytical techniques. Although most of them are highly sensitive and selective, preliminary enrichment techniques are required to extend the detection limits, improve precision and accuracy of analytical results, and to widen the scope of the determination techniques. About two decades ago, I wrote a chapter Separations and Pre-concentrations in Trace Analysis: Physical Methods edited by Prof. G. H. Morrison (Wiley-Interscience, New York, 1965). Since then, the progress in this field has been remarkable. This monograph is intended as a laboratory book directly applicable to the practice, but is not a so-called cookbook which offers detailed laboratory instructions. It is useful for all analysts solving problems in inorganic trace analysis and appreciating the applicability and limitations of enrichment techniques combined with instrumental determination techniques. In three introductory chapters, general aspects and control of contamination and loss are discussed. The following eight chapters deal with enrichment techniques based on volatilization, liquid-liquid extraction, selective dissolution, precipitation, electrochemical deposition and dissolution, sorption, ion exchange, liquid chromatography, flotation, freezing and zone melting. The final two chapters are devoted to special enrichment techniques used in trace analyses of natural waters and gaseous samples.

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