



# Isotope Dilution Analysis: International Series of Monographs in Analytical Chemistry

By J. Tölgyessy, T. Braun, M. Kyrš

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The book first discusses the principles, types, and theory of IDA. Classification of the methods of IDA; precision, accuracy, and sensitivity of IDA; and types of IDA are described. The text also examines experimental techniques, separation, and mass determination. The separation of components, reagents and tracers, and amount of substance separated are underscored.

The text takes a look at the inorganic applications of IDA, including determination of elements and selected procedures. The text examines the applications of IDA in organic chemistry and biochemistry, particularly in the analysis of alcohols and ethers, steroids, penicillin, proteins and amino acids, and insecticides.

The book discusses IDA with stable isotopes. Methods for the determination of isotopic composition, fundamentals and technique, and practical applications are underscored. The text also emphasizes the special applications of isotope dilution. Determination of the content of isotopic carriers in radioactive preparations; determination of the coefficient of self-absorption and specific activity; and determination of radioactive contaminants are discussed.

The text is a vital reference for readers interested in isotope dilution analysis.

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