

Thermal Ionization Mass Spectrometry (TIMS)

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Reviews

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THERMAL IONIZATION MASS SPECTROMETRY (TIMS)



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Condition: New. Publisher/Verlag: Wiley-VCH | Silicate Digestion, Separation, Measurement | This first book to discuss both separation chemistry and mass spectrometry for mineral and rock analysis compares the two frequently used techniques, analyzing both their scope and limitations by way of numerous practical examples. The excellent and highly experienced author adopts a comprehensive and systematic approach, reviewing all the steps involved in an analytical workflow. In addition to thermal ionization mass spectrometry (TIMS), he also discusses applications of ICP-MS. Furthermore, alongside detailed protocols on sample preparation and mass spectrometric measurements, numerous practical hints are given.A must-have handy guide for all isotope geochemists and anyone involved in isotope analysis. | PREFACEPART I. INTRODUCTIONOVERVIEW OF ATOMS, ISOTOPES, AND BULK/SPOT ANALYSESThe atom, isotope and mass spectrometryBulk analysis and spot analysisElectron probe microanalysisSecondary ion mass spectrometryLaser ablation-inductively coupled plasma mass spectrometry (LA-ICP-MS)Radioactive decayOVERVIEW OF MASS SPECTROMETRYCharacterization of mass spectrometry by the ion sourceCharacterization of mass spectrometry by the mass separatorCHARACTERIZATION OF ELEMENTS BY THEIR BEHAVIOUR IN HF SOLUTIONBRIEF OVERVIEW OF ANALYTICAL GEOCHEMISTRYMajor element geochemistryX-ray fluorescence spectrometerLoss on ignition and ferric/ferrous ratio of ironThe classification of the igneous rock sampleTrace element geochemistryDetermination of mass fractionationAge datingAge dating by radioactive isotopesExtinct nuclidesAn isochron or a mixing line?Radiogenic isotopes for geochemical tracersPART II. BASIC PRINCIPLES IN MASS SPECTROMETRYVACUUM TECHNIQUES AND ION DETECTIONBasic knowledge on vacuumConversion table of the vacuum unitWhen you touch the vacuum and electric equipmentSpeed of gas moleculesPirani gaugePenning gaugeIon gaugeRotary pumpOil diffusion pumpTurbo molecular pumpIon pumpCold trap (cryopump)Photoelectron multiplierSecondary electron multiplier and ion counting systemOperation of SEMFaraday cupPRINCIPLES OF IONIZATION OF ELEMENTS AND MASS SEPARATIONPrinciple of thermal ionization (TI)Inductively coupled plasma (ICP) sourceIonization by sputtering phenomenaPrinciple of mass separation by sector magnetic fieldPrinciple of quadrupole (Q-pole) mass filterMass resolutionAbundance sensitivityMass discrimination correctionMASS SPECTROMETERSThermal ionization mass spectrometerInductively coupled plasma source Q-pole type mass spectrometry (ICP-QMS)Sector-type ICP-MS...

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