

Handof Stable Isotope Analytical Techniques



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The most significant progress in analytical techniques for stable isotope analysis of water is witnessed. Hence, overall quality control of isotopic data is becoming an important issue.

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Publisher Summary. Thermal ionization mass spectrometry is the most precise method for stable isotope measurement for the elements. Only singly charged ions are formed during the thermal ionization process because of the high ionization energy of the elements relative to the filament temperature.

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Part 1. Stable isotope analysis of water and aqueous solutions by conventional dual-inlet mass spectrometry (J. Horita, C. Kendall). Conventional and less conventional techniques for hydrogen and oxygen isotope analysis of clays, associated minerals and pore waters in sediments and soils (H.A. Gilg, J.-P. Girard, S.M.F. Sheppard).

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Contents/Summary. Introduction. Part 1. 1. Stable isotope analysis of water and aqueous solutions by conventional dual-inlet mass spectrometry (J. Horita, C. Kendall). 2. Conventional and less conventional techniques for hydrogen and oxygen isotope analysis of clays, associated minerals and pore waters in sediments and soils (H.A. Gilg, J.-P.

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Isotope separation techniques. Spiking and isotope dilution procedures. Appendix A - List of stable isotopes and their relative abundances in nature. Appendix B - Sample preparation methods. Appendix C - Vacuum technology related matters. Appendix D - Chemicals commonly used for stable isotope analytical preparations and their risks. Appendix E - List of theses including stable

isotope analytical techniques.

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Moire Anne Wadleigh Student Prize in Stable Isotope Science The Moire Anne Wadleigh Student Prize in Stable Isotope Science is awarded to the student presenting the best paper or poster at the Advances in Stable Isotope Techniques and Applications (ASITA) Workshop, as determined by an independent panel of judges convened by the conference organizers.

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STABLE ISOTOPE ANALYSIS TECHNIQUES. Analysis: Carbon-13 & Nitrogen-15 of bulk materials
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