

Stable isotope hydrology. Deuterium and oxygen-18 in the water cycle.

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 Gat, J.R.; Gonfiantini, R.

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AbstractAbstract

[en] This monograph is mainly intended for hydrologists, hydrogeologists and geochemists who want to become acquainted, rapidly but in some detail, with the theoretical background of stable isotope fractionation in natural physico-chemical processes involving fresh water, with the isotopic differences actually encountered in natural waters and with their use for practical hydrological purposes. Throughout the monograph, and in particular in the last chapter, a series of examples are discussed, giving the results obtained with stable isotope techniques in current hydrological and hydrogeological investigations or, more generally, in water resources exploration and assessment. One chapter is also dedicated to the techniques for measuring D/H and $^{18}\text{O}/^{16}\text{O}$ ratios in water

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