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### Radiogenic Isotope **Geochemistry** 320

January 10, 2001 also binds quarks together to form hadrons, a class of particles that includes neutrons and protons. The intensity

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of the strong force de-creases rapidly with distance, so that at distances more than about 10-14 m it is weaker than the elec-

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tromagnetic force.

geochemical box models. The reservoirs may be those shown in Figure 6-1 or some

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other ensemble. Depending on the problem at hand, one may want a more detailed categorization (for example, separating the hydrosphere into oceans and freshwater), or

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a less detailed categorization (for example, combining the biosphere and soil reservoirs).

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PM Page 1 Research Publishing Services  
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Geochemical Exploration and Medical  
Geology Author K. R. Randive

**Geochemistry** is a prime branch of  
geosciences, which relates to variety of sub-



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disciplines including mineralogy, petrology and petrogenesis, tectonics, exploration and economic geology.

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W. M. White **Geochemistry** Chapter 7:  
Trace Elements 261  $\text{HCO}_3^-$ ,  $\text{Mg}^{2+}$ ,  $\text{Ca}^{2+}$ ,  
 $\text{K}^+$  and  $\text{Na}^+$  (and  $\text{H}_2\text{O}$ , of course) can be  
considered a trace constituent, though  $\text{Sr}^{2+}$ ,

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HBO 3  $?$ , and  $\text{Br}^-$  are sometimes considered major constituents also (constituents or species is a better term here than elements). These, including the last

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three, constitute over 99.99% of the total dissolved

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'the occurrence and movement of aqueous solutions through porous and permeable rock media, regardless of the phase or concentration of the solutions. the



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modifications caused to the chemical composition of the solutions, of other subsurface fluids and of the rock ...

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of chemical principles to the study of the origin, generation, migration, accumulation and alteration of petroleum, and the use of

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Fractionation Factor The fractionation  
factor,  $\alpha$ , is the ratio of isotope ratios in two



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phases:  $\alpha$   $\beta$   $\gamma$   $\delta$   $\epsilon$   $\zeta$   $\eta$   $\theta$   $\iota$   $\kappa$   $\lambda$   $\mu$   $\nu$   $\xi$   $\omicron$   $\pi$   $\rho$   $\sigma$   $\tau$   $\upsilon$   $\phi$   $\chi$   $\psi$   $\omega$  9.03 The fractionation of isotopes between two phases is also often reported as  $\delta$  ?

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of Gold in the United States By Daniel R. Shawe Abstract Gold has long been a store of wealth, whether held by governments or in private hoards. Of the total of about 3

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chloride) bromide)

3 Groundwater **Geochemistry** In this section we will look at the general chemical

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including carbonate equilibrium, oxidation-reduction reactions and adsorption-desorption processes.

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