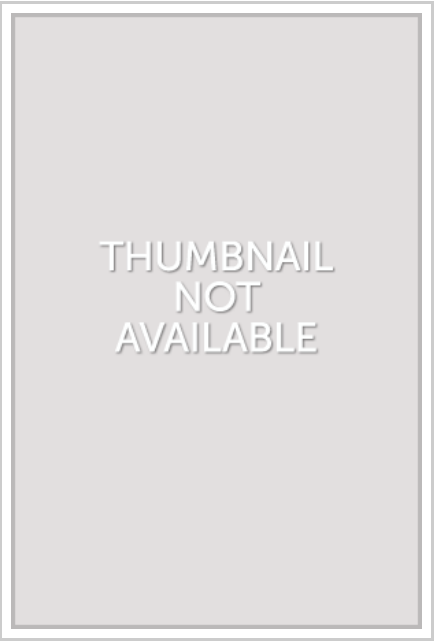

Alumni Report Volume 28

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 54 pages. Original publisher: Ada, OK : U. S. Environmental Protection Agency, National Risk Management Research Laboratory, 2001 OCLC Number: (OCoLC)47993819 Subject: Groundwater flow -- Mathematical models. Excerpt: . . . Introduction In the past decade many reactive transport models have been developed to describe the effects of chemical reactions on the transport of solutes (e. g. , Liu and Narasimhan, 1989; Yeh and Tripathi, 1991; Parkhurst, 1995; Curtis and Rubin, submitted). The reactivity of inorganic solutes depends strongly on chemical speciation; species that precipitate or are extensively adsorbed are highly retarded, whereas species that are soluble and weakly adsorbed can be mobile in groundwater (Davis et al. , 1993). Much of the discussion about these models has been concerned with the most efficient mathematical coupling of transport equations (partial differential equations) with the algebraic equations that describe chemical reactions at equilibrium (e. g. , see Yeh and Tripathi, 1989; and Rubin, 1990). Other issues of interest in model development have included: 1) the validity of the assumption of local chemical equilibrium, 2) the comprehensiveness of the models...

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