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semi three dimensional two and three dimensional models can take into account the anisotropy of the  
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May 21st, 2020 - the analytic element method aem an analytic element is a mathematical function that is  
associated with a particular boundary condition and it is a solution of the governing groundwater flow  
equations one kind of element represents flow to a pumping well a second kind represents discharge to a  
stream segment a third kind represents an area of recharge and so on'

'metropolitan area ground water model the metro model

May 20th, 2020 - the metro model is a regional ground water flow model encompassing the twin cities seven  
county metropolitan area the metro model provides the regional flow conditions that serve as the starting  
point for site specific models that can be constructed through modification and addition of local  
detail"analytic element modeling of supraregional groundwater

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'a new algorithm for analytic element modeling of large

**April 9th, 2020 - most current groundwater flow models use either the finite element fe or the finite difference fd method to solve the governing equations in contrast to the domain discretization approach of the fe fd methods the analytic element method aem discretizes the boundaries of hydrogeological features instead of the entire domain'**

'analytic element modeling of supraregional groundwater

**April 15th, 2020 - the analytic element method aem is an appealing technique for modeling steady state groundwater flow at the supraregional scale defined here as gt 10 000 km 2 because the putational demand is determined primarily by the number of modeled hydrologic features and not constrained by the size of the domain in this paper we introduce aem to practitioners unfamiliar with the approach and'**

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