

Influence of Hydraulic Conductivity Distribution of Sandy Ground on Groundwater Flow

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Sandy ground has hydraulic conductivity distribution corresponding to facies distribution because hydraulic conductivity depends on facies. The hydraulic conductivity distribution governs groundwater flow, which may cause collapses of tunnel faces. Thus, groundwater simulation considering the hydraulic conductivity distribution is desirable. In this research, we simulated groundwater table on models considering the hydraulic conductivity distribution. As a result, we revealed conditions under which sandy ground can be regarded as homogeneous.