

## عنوان مقاله:

The contribution of resistivity method to determine the hydraulic conductivity of the aquifers - A Review

## محل انتشار:

اولین کنفرانس بین المللی منابع آب با رویکرد منطقه ای (سال: 1388)

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## خلاصه مقاله:

Knowledge of aquifer parameters (e.g., hydraulic conductivity) is essential for the management of groundwater resources. Conventionally, these parameters are estimated through pumping tests carried out on water wells. Few boreholes may be available and carrying out pumping tests at a number of sites may be costly and time consuming. The fact that near surface geophysicists continue to intensively explore new approaches to hydraulic conductivity (K) estimation both in the laboratory, and in the field, is testimony to the complexity of the linkages between geoelectrical properties and K. The integration of aquifer parameters calculated from the existed boreholes locations and surface resistivity parameters extracted from surface resistivity measurements can be realized an indirect correlation between hydraulic and electrical aquifer properties, as both properties are related to the pore space structure and heterogeneity. This work reviews the recent geophysical literature addressing the estimation of saturated hydraulic conductivity from static electrical measurement (resistivity method).

## کلمات کلیدی:

conductivity, Permeability, Resistivity method, aquifer

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/82997>

