

عنوان مقاله:

Geotechnical analysis of igneous rocks (Andesite) from west of Yazd for Engineering Uses

محل انتشار:

نشریه علمی پژوهش در مهندسی عمران و معماری ایران, دوره 7, شماره 26 (سال: 1401)

تعداد صفحات اصل مقاله: 6

نویسنده:

Hoseinali Bagi - Department of Civil engineering, Technical and Vocational University, Tehran, Iran

خلاصه مقاله:

Andesite Rocks are highly distributed and available in huge quantities in west of Yazd in central Iran. The objective of this study is to determine the Evaluation of resistance and those relevant to engineering aims in central Iran., which is related to the Upper Eocene basaltic flows and to conduct a comparison of the results with the standard specifications. Ten random samples of west of Yazd, were collected representing five locations. The laboratory investigation included measurements of point load strength, splitting tensile strength (MPa), Los Angeles, abrasion value (%), slake durability, abrasion, porosity, and saturation degree. In addition, the chemical and mineralogical composition of the basalt was identified utilizing X-ray fluorescence (XRF), and X Ray Diffraction respectively. The laboratory investigation included measurements of point load strength, splitting tensile strength (MPa), Los Angeles, abrasion value (%), slake durability, abrasion, porosity, and saturation degree. In addition, the chemical and mineralogical composition of the basalt was identified. The results of properties related to engineering indicate that these rocks have mainly compressive strength values ranging from Fo to IPO Mpa. Los Angles Abrasion ranges between P.55% and F.AP%, and splitting tensile strength (MPa) is between 1.90F and ٣.٣٣1. The results show that the Andesiteof west of Yazd complies with the international standards, and the standards.used for classifying the decorative and building stones .and some not recommended

كلمات كليدى:

Andesite, west of yazd, Geotechnical, Building stones, Engineering properties

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1841084

