The Effect of Surface Roughness on Discharge Coefficient and Cavitations of Ogee Spillways Using Physical Models
Conclusions:

Conclusions which can be drawn from this research through investigating and analyzing the above tables and figures are as follows: In this research, after identification of significant and effective parameters affecting discharge coefficient of Ogee spillway using dimensional analysis methods obtained from dimensionless equations and finally performing about 30 tests on Ogee spillway with certain geometrical features and a range of operated roughness, it reached the following results:

1. In terms with no roughness, research results show that most effective factor for discharge coefficient refers to upstream water load than spillway radius and increase of this relation results in increase of discharge coefficient.

2. Increase of relative roughness of spillway results in decrease of discharge coefficient of flow and effect of relative roughness on discharge coefficient is less than flow rate.

3. By examining the relationship $\sigma_c$ and roughness, the tables show that in all cases $\sigma_c$ increasing the surface roughness is decreased.

توجه!
این فایل تنها قسمتی از ترجمه میباشد. برای تهیه مقاله ترجمه شده کامل باید فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک نمایید.

برای جستجوی جدیدترین مقالات ترجمه شده، اینجا کلیک نمایید.