

عنوان مقاله:

Experimental Study of Static and Dynamic Pressures over Simple Flip Bucket

محل انتشار:

پنجمین کنفرانس بین المللی پیشرفت های علوم و تکنولوژی (سال: 1390)

تعداد صفحات اصل مقاله: 8

نویسندگان:

O Aminoroayaie Yamini - MSc. Student, K.N. Toosi University of Technology, Tehran, Iran

,M.R. Kavianpour - Associate Professor, K.N. Toosi University of Technology, Tehran

خلاصه مقاله:

Flip buckets are usually used in high head dams to dissipate the destructive energy of high speed jets. These structures are fixed at the end of the outlet conduits to direct the moving jet into the atmosphere. The process of energy dissipation also resumes, while the jet entering into its downstream plunge pool. Although studies of flow over flip buckets turn back to many years ago, but still there are uncertainties regarding the flow behaviour over these structures with various geometries and flow conditions. In this study, experimental measurements of static and dynamic pressures and their distribution over these structures are investigated. Measurements were made along two different simple flip buckets with various Froude numbers to determine the effects of the geometry and flow characteristics on pressure field. Maximum pressures are also presented and the results are compared with those of other investigations

کلمات کلیدی:

Flip Bucket, Pressure Distribution, Dynamic Pressure, Physical Model

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/157396>

