

عنوان مقاله:

Buried Wing as a New Method for Control Scour Around of Abutments

محل انتشار:

اولین کنفرانس بین المللی و سومین کنفرانس ملی سد و نیروگاههای برق آبی (سال: 1390)

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خلاصه مقاله:

Building dam is changing River's morphology which this phenomenon can cause erosion which happens around of abutments, spur dykes and the hydraulic structures built in the river bed. There are limited researches on the scour control methods for abutments and spur dykes. Preventing formation of the hole in the upstream face of the vertical wall abutment using buried wing as a new approach it can be expected that the down flow as well as scouring effect reduces. In this research investigated effect of buried wing in four clear water condition and comparing with vertical andwing wall abutment. Experiments were conducted in compound channel with a 1.5 m wide, 14 m long and 0.7 m deep. Results showed comparing with vertical wall abutment the buried wing abutment decreases the scouring depth .by 19 to 32 percent and the wing wall abutment by 6 to 26 percent in similar condition

کلمات کلیدی:

Scour, Countermeasure, Abutment, Buried wing

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