عنوان مقاله:

(Application of HEC-RAS Model in River Hydraulic Simulation(Case Study: Farsiat Station, Ahvaz

محل انتشار:

دومین کنفرانس بین المللی فناوری های نوین در مهندسی معماری و شهرسازی ایران (سال: 1400)

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خلاصه مقاله:

Urban floods have received more and more attention with the development of urbanization and the expansion of cities. The occurrence of widespread floods in urban areas, in addition to causing great human and financial losses, causes destructive effects on the environment and water quality of waterways and urban canals. Therefore, understanding the dangers of urban floods is very important in urban management systems because of the harmful effects they can have and how to assess and deal with them. In general, to deal with the destructive effects of this phenomenon, first, the causes of urban floods should be investigated, then by recognizing the adverse effects of this phenomenon, the necessary solutions to reduce the damage caused by it should be provided. In this study, the flow routing in Karun River in Farsiat village of Ahvaz due to its importance has been investigated. One of the basic measures in flood flow studies is to determine the flow hydrographs and draw longitudinal profiles of water level. In this research, with the help of the HEC-RAS hydraulic model, flood routing has been carried out in a section of Karun River, between Ahvaz and Farsiat hydrometric stations. The results show that not considering the flood zone around .the river can be a serious threat to residents around the river in the area

کلمات کلیدی:

Flood Modelling, Khuzestan, Hourly flood hydrograph, hydrograph peak discharge