



## Physics of Fluids

Guest Editors: Tim. K.T. Tse, Zengshun Chen, Xuelin Zhang, and Cruz Y. Li

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RESEARCH ARTICLE | MARCH 15 2023

## Hydraulics of structures for irrigation hydro-reclamation systems

R. R. Abdurajupov, S. T. Kalandarova, Sh. K. Ziyaeva, F. S. Kattakulov

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For irrigation of crops in compliance with the recommended technologies, including discrete (surge flow) water supply, the issue of the design of irrigation constructions is of great importance. The article describes the development of the design of a small irrigation structure - an irrigation device. After the creation of this device, its theoretical and laboratory studies were carried out. The formula for determining the coefficient flow rate has been selected. A fully factorial experiment was carried out to determine the coefficient flow rate of an irrigation device, taking into account the speed characteristics of the supply channel. The hydraulic calculation of the device is proposed.

Topics

Hydrology, Hydraulics