
RESEARCH OF FLOW THROUGH BRIDGE STRUCTURE WITH FREE WATER SURFACE AND SUBMERGED INLET

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The paper presents the results of hydraulic research of flow through bridge structure with free water surface and submerged inlet on a physical model. It compares current knowledge with measured data and discusses the differences. The paper contains an analysis of creation of the contracted depth at the bridge inlet. It processes the discharge coefficient dependence on several factors as well. These are presented with graphs and equations. The conclusion gives recommendation for choosing the discharge coefficient while computing in Hec-Ras software.