

14.1 Weirs-Introduction

A control structure can be defined as a change in the cross-section of the flow whereby the regime of the flow is modified. At such a section, a definite stage-discharge relationship exists, enabling it to be used for the purpose of flow measurement. At a control structure like a Weir or a measuring flume, etc, the flow changes from sub critical to supercritical state. Thus, the flow passes through a critical section and flow is independent of the tail-water conditions. In such a case, the flow can be measured by a single depth measurement upstream of the critical section.



