

## SURFACE FRICTION IN OPEN CHANNEL

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### ABSTRACT

Roughness depends upon size of the roughness material. Since  $D_{50}$  are more for 2.5 inch roughness bed as compared to 2.0 inch roughness bed hence lesser value of  $\frac{d}{D_{50}}$  and  $\frac{d}{D_{84}}$  indicate more roughness. There is less size of 2.0 inch roughness bed which is not submerged as compared to 2.5 inch roughness bed and function of effective roughness concentration depends upon wetted frontal cross sectional area i.e. wetted frontal cross sectional area is more for 2.0 inch roughness bed hence function of effective roughness concentration is more for 2.0 inch roughness bed as compared to 2.5 inch roughness.

**Subject Headings:** Boulders, Channels, Drag, Flow resistance, Flumes

**KEYWORDS:** Friction Factor, Hydraulic Geometry, Roughness