

OPEN CHANNEL HYDRAULICS

CHEZY'S AND MANNING'S EQUATIONS

By applying force balance along the direction of flow in an open channel having uniform flow, the following equations can be derived. Both of the equations are widely used for design of open channels.

Chezy's Equation

$$V = C\sqrt{RS_o}$$

$$Q = CA\sqrt{RS_o}$$

Value of C is determine from respective **BG** or **SI** Kutter's formula.

V = mean velocity (m/s, ft/s)

R = hydraulic radius (m, ft)

S = friction slope (m/m, ft/ft)

C = Chezy's Constant

A = Cross-sectional area of flow

► Manning's Equation

$$V = \frac{1}{n} R^{2/3} S_o^{1/2} \quad \left. \vphantom{\frac{1}{n} R^{2/3} S_o^{1/2}} \right\} \text{SI}$$

$$Q(m^3/s) = \frac{1}{n} A R^{2/3} S_o^{1/2}$$

$$Q(cfs) = \frac{1.486}{n} A R^{2/3} S_o^{1/2} \quad \text{BG}$$

V = mean velocity (m/s, ft/s)

n = Manning's roughness value

R = hydraulic radius (m, ft)

S = friction slope (m/m, ft/ft)

A = Cross-sectional area of flow

Open Channel Hydraulics Problems And Solution

JG Myers



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