

Open Channel Flow Equations

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$$\frac{y_2}{y_1} = \frac{-1 + \sqrt{1 + 8Fr_1^2}}{2}$$

Hydraulic jump depths

$$Q = \frac{1}{n} A R_h^{2/3} S_b^{1/2}$$

Manning

$$R_h = \frac{A}{P}$$

Hydraulic radius