



Chapter 3

Energy and Momentum Principles

Problem 1. Find the critical water depth for a specific energy head of $E_c = 1.5$ m in the following channels:

- (a) Rectangular channel, $b = 2$ m
- (b) Triangular channel, $m = 1.5$ m
- (c) Trapezoidal channel, $b = 2$ m and $m = 1$.

Solution:

(a) Rectangular Channel

$$E_c = \frac{3}{2} y_c = 1.5$$

$$1.5 = \frac{3}{2} y_c$$

$$y_c = 1 \text{ m}$$

(b) Triangular Channel

$$E_c = 1.25 y_c = 1.5$$

$$1.5 = 1.25 y_c$$

$$y_c = 1.2 \text{ m}$$

(c) Trapezoidal Channel

$$E_c = y_c + \frac{Q^2}{2gA^2}$$

$$\frac{Q^2 T}{gA^3} = 1 \rightarrow Q^2 = \frac{gA^3}{T}$$

$$E_c = y_c + \frac{gA^3}{2gA^2 T} \rightarrow E_c = y_c + \frac{A_c}{2T_c} \rightarrow E_c = y_c + \frac{(by_c + my_c^2)}{2(b + 2my_c)}$$

$$1.5 = y_c + \frac{(2y_c + y_c^2)}{2(2 + 2y_c)}$$

By using trial and error method, $y_c = 1.1$ m

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