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Column 1 Specify the longitudinal distance (x)
Column 2 Estimate y at location x
Column 3 Calculate the area (A) of the channel at location x
 (rectangular) $A = w * y$
Column 4 Calculate wetted perimeter (P)
 (rectangular) $P = 2 * y * w$
Column 5 Calculate hydraulic radius (R)
 $R = A / P$
Column 6 $R^{4/3}$
Column 7 Calculate velocity (V)
 $V = Q/A$
Column 8 Calculate elevation (z)
 $z = \text{starting elevation} + \text{slope} * x$
Column 9 Calculate total head (H)
 $H = z + y + (V^2) / 2g$
Column 10 Calculate friction slope
 (Equation taken from Chaudhry 2008)
 $S_f = (n^2)(V^2)/(C^2)(R^{4/3})$
 $C = 1$ for metric system
 $C = 1.49$ for U.S. Customary

Column 11 Calculate mean friction slope
 $\text{mean } S_f = (S_f(n) + S_f(n-1))/2$
Column 12 Calculate dx
 $dx = x(n) - x(n-1)$
Column 13 Calculate the headloss between points (Hf)
 $H_f = dx * S_f$
Column 14 Calculate the total head based on the head at the previous station minus current headloss
 $H^* = H(n-1) - H_f(n)$
Column 15 Find the error between H and Hf
 $\text{error} = H^* - H$
Column 16 Calculate the water surface elevations
 $W.S. = y + z$

Iteratively change y estimates (column 2) until the error (column 15) is reasonably close to 0

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