3.5 Manning's Equation Q = A R 5 1/2 Sor channel Q = dis charge A = cross-sectional area R = hydraulre radius = A IP , P = wetted priemeter n = Mannings roughers coefficient 20.01-0-04 tepovols on bed material 5 = bed Slope for Channel VIII.

EX: For the Shown channel, End me dos charge 1-2m-- Concrite. (n=0.012) S = 90 = 0.00090 P= 3+ 2×2√2 =8.66 m A=[3+(3+2+2)]/x2=10m2  $-602 \times (\frac{10^{2}}{8.66})^{3} (0.0009)^{3}$ = 27.52 m3/s