12.16 Given:

$i = 3.0$ in./hr for 60 min

$S = 0.0001$ ft/ft

$L = 500$ ft

$n = 0.014$ (concrete paving, Table 12.17)

$\Delta t = 5$ min

Procedure: $D_2 = D_1 + \Delta D - \bar{q}\,\Delta t$

for each interval ($D_o = 0.0$)

$$\bar{q} = \frac{1.486}{n} S^{1/2} (\bar{D}/L)^{5/3} (1 + 0.6(\bar{D}/D_e)^3)^{5/3}$$