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## Chapter 7

7.1 Eq. (7.1):  $S_r = A_1 A_2 \frac{q_c B}{E_s}$

$$D_f = 1.2 \text{ m}; H = 3 \text{ m}; B = 1.5 \text{ m}; L = 3 \text{ m}$$

$$\frac{H}{B} = \frac{3}{1.5} = 2; \quad \frac{L}{B} = \frac{3}{1.5} = 2; \quad \frac{D_f}{B} = \frac{1.2}{1.5} = 0.8$$

Figure 7.1:  $A_1 \approx 0.69$ ;  $A_2 = 0.95$

$$S_r = (0.69)(0.95) \frac{(150)(1.5)}{600} = 0.246 \text{ m} = \mathbf{246 \text{ mm}}$$

7.2  $m' = \frac{L}{B} = \frac{4.6}{3} = 1.53$ ;  $n' = \frac{H}{B} = \frac{\infty}{2} = \infty$

$$\left( \frac{B}{2} \right) \quad \left( \frac{1.5}{2} \right)$$

Tables 7.2 and 7.3:  $F_1 = 0.669$ ;  $F_2 \approx 0$

$$I = F_1 + \frac{1-2\mu_s}{1-\mu_s} F_2 = 0.669 + \frac{1-(2)(0.3)}{1-0.3} (0) = 0.669$$

$$\frac{D_f}{B} = \frac{2}{3} = 0.67; \quad \frac{B}{L} = \frac{3}{4.6} = 0.652 \quad \text{Table 7.4: } I_f \approx 0.785$$

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**A Loxley**



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