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Chapter 6

- 6.1 The following table can now be prepared. Note: $B = 2$ m (diameter); $z = 3$ m;
 $q_u = 150$ kN/m²

$\frac{z}{\left(\frac{B}{2}\right)}$	r (m)	$\frac{r}{\left(\frac{B}{2}\right)}$	$\frac{\Delta\sigma_z^*}{q_u}$	$\Delta\sigma_z$ (kN/m ²)
3	0	0	0.146	21.9
3	0.4	0.4	0.141	21.15
3	0.8	0.8	0.127	19.05
3	1	1	0.118	17.7

* Table 6.1

- 6.2 See Eq. (6.1).

Load @	P (kN)	r (m)	z (m)	$\frac{r}{z}$	$\frac{3}{2\sqrt{1+\left(\frac{r}{z}\right)^2}} \sqrt{1+\left(\frac{r}{z}\right)^2}$	$\Delta\sigma_z = \frac{P}{z^2} \left[\frac{3}{2\sqrt{1+\left(\frac{r}{z}\right)^2}} \sqrt{1+\left(\frac{r}{z}\right)^2} \right]$ (kN/m ²)
<i>B</i>	100	6	6	1.0	0.0844	0.234
<i>C</i>	200	$(6^2 + 6^2)^{0.5} = 8.48$	6	1.41	0.0309	0.172
<i>D</i>	400	$(6^2 + 3^2) = 6.708$	6	1.118	0.0629	0.699

$$\Delta\sigma_z = \Sigma 1.105 \text{ kN/m}^2$$

Principles Of Engineering Economic 8th Edition Solutions

R Bogdan



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