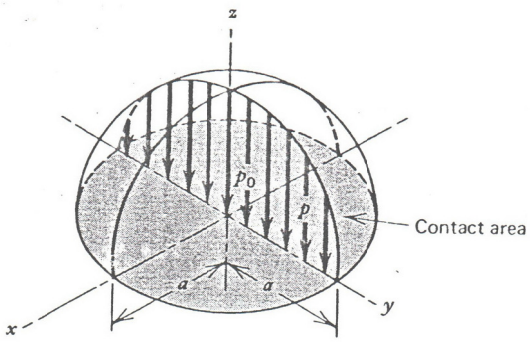
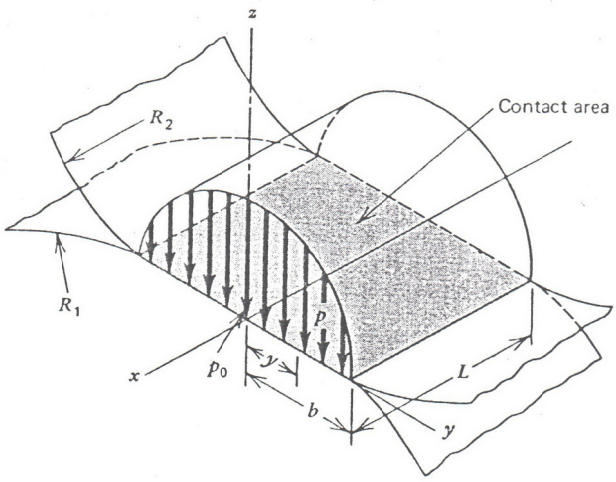
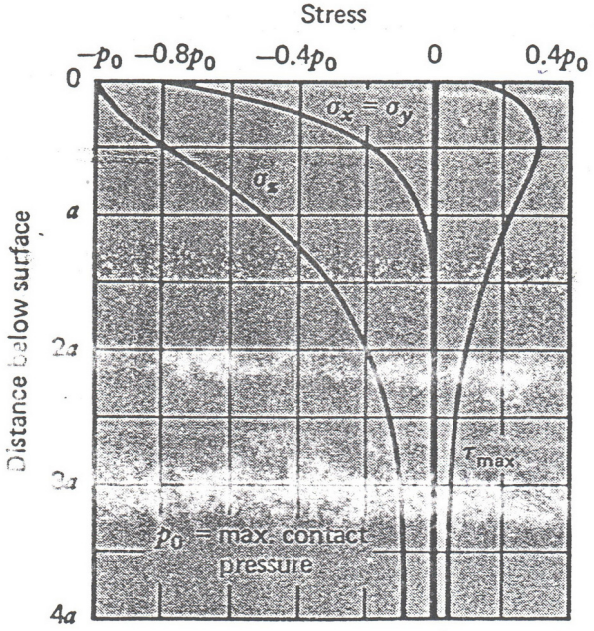


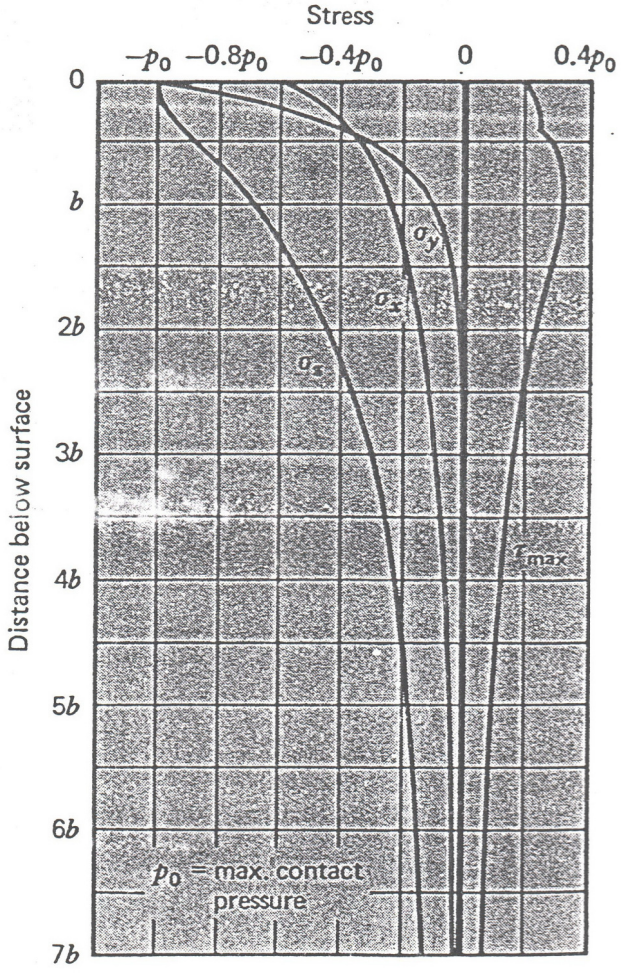
(a)
Two spheres



(b)
Two parallel cylinders



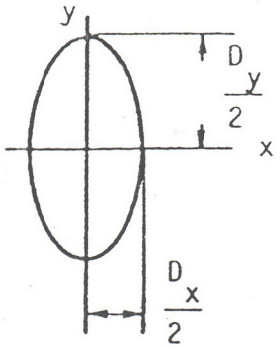
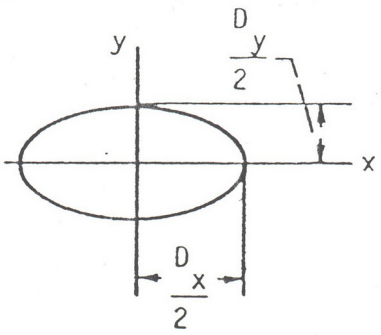
(a)
Two spheres
(*a* is defined in Fig. 9.13*a*)



(b)
Two parallel cylinders
(*b* is defined in Fig. 9.13*b*)

Figure 9.15 Elastic stresses below the surface, along the load axis (for $\nu = 0.3$).

TABLE 12. - SIMPLIFIED EQUATIONS

	
$\alpha \geq 1$	$\alpha < 1$
$\overline{k} = \alpha^{2/\pi}$	$\overline{k} = \alpha^{2/\pi}$
$\overline{\mathscr{F}} = \frac{\pi}{2} + q \ln \alpha$	$\overline{\mathscr{F}} = \frac{\pi}{2} - q \ln \alpha$
where $q = \frac{\pi}{2} - 1$	where $q = \frac{\pi}{2} - 1$
$\overline{\delta} = 1 + \frac{q}{\alpha}$	$\overline{\delta} = 1 + q\alpha$
$D_y = 2\left(\frac{6k^2 \delta FR}{\pi E'}\right)^{1/3}$	$D_y = 2\left(\frac{6k \delta FR}{\pi E'}\right)^{1/3}$
where $R^{-1} = R_x^{-1} + R_y^{-1}$	where $R^{-1} = R_x^{-1} + R_y^{-1}$
$D_x = 2\left(\frac{6 \delta FR}{\pi k E'}\right)^{1/3}$	$D_x = 2\left(\frac{6 \delta FR}{\pi E' k^2}\right)^{1/3}$
$\delta = \mathscr{F}\left[\left(\frac{4.5}{\delta R}\right)\left(\frac{F}{\pi k E'}\right)^2\right]^{1/3}$	$\delta = \mathscr{F}\left[\left(\frac{4.5}{\delta R}\right)\left(\frac{Fk}{\pi E'}\right)^2\right]^{1/3}$