





















$I_{c1}$	vertical stress influence coefficients in Tables 1 and 2
$I_{c2}$	vertical stress influence coefficients in Tables 3 and 4
$G$	non-dimensional integration value (parameter) whose value depends on $r$
$I_c\left(\frac{R}{z}\right)$	dimensionless influence coefficient for finding vertical stress distribution of any depth $z$ under the centre of a circular foundation area of radius $R$ carrying uniformly distributed load, $p_0$
$\nabla^2 = \frac{\partial^2}{\partial r^2} + \frac{1}{r} \frac{\partial}{\partial r} + \frac{\partial^2}{\partial z^2}$	
$\nabla^2$	Laplace partial differential operator in axisymmetric cylindrical coordinates
$\nabla^4$	biharmonic (partial differential) operator in axisymmetric cylindrical coordinates
$\nabla^4 = \nabla^2 \nabla^2 = (\nabla^2)^2 = \left( \frac{\partial^2}{\partial r^2} + \frac{1}{r} \frac{\partial}{\partial r} + \frac{\partial^2}{\partial z^2} \right)^2$	

## MATHEMATICAL SYMBOLS

$\frac{\partial}{\partial z}$	partial derivative with respect to $z$
$\frac{\partial^2}{\partial z^2}$	second partial derivative with respect to $z$
$\int_0^\infty ( ) d\beta$	integration with respect to $\beta$ between the limits 0 and $\infty$
$\exp(-\beta z)$	exponential function
$f'(r)$	first derivative of $f(r)$ with respect to $r$
$f''(r)$	second derivative of $f(r)$ with respect to $r$
$<$	less than
$>$	greater than
$\frac{\partial}{\partial r}$	partial derivative with respect to $r$
$\frac{\partial^2}{\partial r^2}$	second partial derivative with respect to $r$