






LOADING CONDITION	STRESS DIAGRAM	STRESS COMPONENT	EQUATION
POINT LOAD		VERTICAL	$\sigma_z = \frac{P}{2\pi R^3} \left[\frac{3z^3}{R^3} + \frac{(1-2\mu)R}{R+z} \right]$
		HORIZONTAL	$\sigma_r = \frac{P}{2\pi} \left[3 \frac{r^2}{R^3} - (1-2\mu) \left(\frac{R-z}{R+z} \right) \right]$
		SHEAR	$\tau_{rz} = \frac{3P}{2\pi} \cdot \frac{r z^2}{R^5}$
UNIFORM LINE LOAD OF INFINITE LENGTH		VERTICAL	$\sigma_z = \frac{2p}{\pi} \cdot \frac{z^3}{R^4}$
		HORIZONTAL	$\sigma_x = \frac{2p}{\pi} \cdot \frac{x^2 z}{R^4}$
		SHEAR	$\tau_{xz} = \frac{2p}{\pi} \cdot \frac{x z^2}{R^4}$
UNIFORMLY LOADED RECTANGULAR AREA (FIGURE 4)		VERTICAL (BENEATH CORNER OF RECTANGLE)	$\sigma_z = \frac{p}{4\pi} \left[\frac{2xyz(x^2+y^2+z^2)^{1/2}}{z^2(x^2+y^2+z^2)^{3/2}} \cdot \frac{x^2+y^2+z^2}{x^2+y^2+z^2} + \tan^{-1} \frac{2xyz(x^2+y^2+z^2)^{1/2}}{z^2(x^2+y^2+z^2)-x^2y^2} \right]$
UNIFORMLY LOADED CIRCULAR AREA (FIGURE 5)		VERTICAL	$\sigma_z = p \left[1 - \frac{1}{(1 + \frac{1}{2} \frac{z}{a})^{1/2}} \right]$
		HORIZONTAL	$\sigma_r = \frac{p}{2} \left[1 - 2\mu - 2(1-\mu) \left(\frac{z}{\sqrt{a^2+z^2}} \right) + \left(\frac{z}{\sqrt{a^2+z^2}} \right)^3 \right]$
		SHEAR	$\tau_{rz} = 0$ (STRESS COMPONENTS σ_z , σ_r , τ_{rz} BENEATH CENTER OF CIRCLE)
IRREGULAR LOAD		VERTICAL	COMPUTED FROM INFLUENCE CHART OF FIGURE 10

ASSUMED CONDITIONS: APPLIED LOADS ARE PERFECTLY FLEXIBLE. FOUNDATION IS SEMI-INFINITE ELASTIC ISOTROPIC SOLID.

FIGURE 2
Formulas for Stresses in Semi-Infinite Elastic Foundation

Navfac Manual

Wenbin Ji



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pile load and NDT foundation failures and remedial works and pile supported embankment The book also includes a country case study on engineering geology in relation to foundation engineering in Malaysia *Federal Public Land Laws and Policies Relating to Use and Occupancy* Daniel, Mann, Johnson & Mendenhall,1970 **Board of Contract appeals decisions** ,1978 *Permafrost* National Research Council Canada. Associate Committee on Geotechnical Research,1981

Foundation Engineering Handbook 2/E Robert W. Day,2010-09-13 A fully up to date practical guide to foundation engineering Revised to cover the 2009 International Building Code Foundation Engineering Handbook Second Edition presents basic geotechnical field and laboratory studies such as subsurface exploration and laboratory testing of soil rock and groundwater samples The book then discusses the geotechnical aspects of foundation engineering including conditions commonly encountered by design engineers settlement expansive soil and slope stability Details on the performance or engineering evaluation of foundation construction and the application of the 2009 International Building Code are included in this valuable resource FOUNDATION ENGINEERING HANDBOOK SECOND EDITION COVERS Subsurface exploration Laboratory testing Soil mechanics Shallow and deep foundations Bearing capacity and settlement of foundations Foundations on expansive soil Slope stability Retaining walls Foundation deterioration and cracking Geotechnical earthquake engineering for soils foundations and retaining walls Grading and other soil improvement methods Foundation excavation underpinning and field load tests Geosynthetics and instrumentation 2009 International Building Code regulations for soils and foundations

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