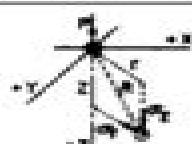
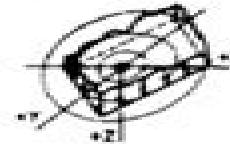


LOADING CONDITION	STRESS DIAGRAM	STRESS COMPONENT	EQUATION
POINT LOAD		VERTICAL	$\sigma_z = \frac{P}{2\pi R^4} \left[ \frac{3r^2 z}{R^2} + \frac{(1-2\mu)R}{R+z} \right]$
		HORIZONTAL	$\sigma_x = \frac{P}{2\pi} \left[ 3 \frac{r^2 z}{R^2} - (1-2\mu) \frac{R-z}{R+z} \right]$
		SHEAR	$\tau_{xz} = \frac{3P}{2\pi} \cdot \frac{r^2 z}{R^3}$
UNIFORM LINE LOAD OF INFINITE LENGTH		VERTICAL	$\sigma_z = \frac{2p}{\pi} \cdot \frac{r^2 z}{R^4}$
		HORIZONTAL	$\sigma_x = \frac{2p}{\pi} \cdot \frac{r^2 z}{R^4}$
		SHEAR	$\tau_{xz} = \frac{2p}{\pi} \cdot \frac{r^2 z^2}{R^4}$
UNIFORMLY LOADED RECTANGULAR AREA (FIGURE 4)	 POINT UNIT OF AREA	VERTICAL (BENEATH CORNER OF RECTANGLE)	$\sigma_z = \frac{p}{4\pi} \left[ \frac{2xyz(x^2+y^2+z^2)^{1/2}}{x^2(y^2+z^2)-y^2(x^2+z^2)} + \frac{x^2+y^2+z^2}{x^2(y^2+z^2)-y^2(x^2+z^2)} \right]$ $+ \text{TRAN} \left[ \frac{2xyz(x^2+y^2+z^2)^{1/2}}{x^2(y^2+z^2)-y^2(x^2+z^2)} \right]$
UNIFORMLY LOADED CIRCULAR AREA (FIGURE 5)		VERTICAL	$\sigma_z = p \left[ 1 - \frac{1}{(1+4z^2/3R^2)^{3/2}} \right]$
		HORIZONTAL	$\sigma_x = \frac{p}{2} \left[ 1-2\mu-2(1-\mu) \left( \frac{z}{R+\sqrt{R^2-z^2}} \right) + \left( \frac{z}{R+\sqrt{R^2-z^2}} \right)^2 \right]$
		SHEAR	$\tau_{xz} = 0$ (STRESS COMPONENTS $\sigma_x$ , $\sigma_z$ , $\tau_{xz}$ 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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**Monthly Catalog of United States Government Publications** United States. Superintendent of Documents, 1987 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index *Monthly Catalogue, United States Public Documents*, 1982 **Directory of Engineering Document Sources**, 1989 **ASCE Manuals and Reports on Engineering Practice**, 2001 **Design Manual**, 1969 **Foundation Engineering Handbook** Robert W. Day, 2006 Publisher Description *The United States Government Internet Manual*, 2008 **Design Manual** Stati Uniti d'America. Department of the navy. Naval facilities engineering command, 1971 **Government Reports Annual Index**, 1983 **Proceedings**, 1986 *Acronyms, Initialisms & Abbreviations Dictionary* Mary Rose Bonk, 2003 **Defense Information Resources**, 1986 **Materials Performance**, 1974 **Foundation Design** Donald P. Coduto, 1994 Foundation Design Principles and Practices is primarily intended to be a textbook for undergraduate and graduate level foundation engineering courses It also can serve as a reference book for practicing engineers As the title implies it is heavily design oriented and discusses methods of applying engineering theories principles and research to practical design problems **Geotechnical Engineer's Portable Handbook** Robert Day, 2000 One volume library of instant geotechnical and foundation data Now for the first time ever geotechnical foundation and civil engineers geologists architects planners and construction managers can quickly find information they must refer to every working day in one compact source Edited by Robert W Day the time and effort saving Geotechnical Engineer's Portable Handbook gives you field exploration guidelines and lab procedures You'll find soil and rock classification basic phase relationships and all the tables and charts you need for stress distribution pavement and pipeline design You also get abundant information on all types of geotechnical analyses including settlement bearing capacity expansive soil slope stability plus coverage of retaining walls and building foundations Other construction related topics covered include grading instrumentation excavation underpinning groundwater control and more **Foundation Engineering** B.B.K. Huat, 2006-01-19 Residual soils are found in many parts of the world Like other soils they are used extensively in construction being built upon and used as construction materials Residual soils are formed when the processes of rock weathering proceed at a faster rate than the transport processes by water gravity and wind whereby much of the resulting soils will remain in place The soil typically retains many of the characteristics of the parent rock In a tropical region residual soil layers can be very thick sometimes extending for hundred of meters before reaching unweathered rock This book has gathered state of the art knowledge from a number of experienced experts working in foundation engineering in tropical residual soils Subjects covered are geology and formation of residual soils site investigations characterization and selection of parameters for foundation design design of shallow and deep foundations which include driven piles drilled shafts and caissons and special topics which include design of piles in marginally stable river banks micro piles Augeo pile

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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web oct 9 2023 tornado a small diameter column of violently rotating air developed within a convective cloud and in contact with the ground tornadoes occur most often in association with thunderstorms during the spring and summer in the mid latitudes of both the northern and southern hemispheres these whirling

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north america where an estimated 1 200 strike the united states each year but they  
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web dec 23 2015 national geographic 7 8m views 4 years ago tornadoes nearly three quarters of which occur within the u s are unpredictable and can cause massive damage new tools and data are helping

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web a tornado can form in a thunderstorm where the rotating air of an updraft shown in purple meets the rotating air of a downdraft shown in aqua which has turned upward paul markowski penn state university tornadoes only form when a thunderstorm has a particular combination of winds