

REFERENCES

- Aas, G., Lacasse, S., Lunne, T., and Madshus, C. (1984). "In situ testing: new developments," *NGM-84*, Linkoping, 2, 705-716.
- American Concrete Institute Committee 336 (1988). "Suggested design procedures for combined footings and mats," *Journal of American Concrete Institute*, 63(10), 1041-1077.
- Anagnostopoulos, A., Koukis, G., and Sabatakakis, N. (2003). "Empirical correlations of soil parameters based on cone penetration tests (CPT) for Greek soils," *Geotechnical and Geological Engineering*, Kluwer Academic Publishers, 21(4), 377-387.
- American Society of Civil Engineers (1972). Subsurface investigation for design and construction of foundations and buildings, *Journal of Soil Mechanics and Foundations Division*, ASCE, 98(SM5), 481-490.
- API (1984). *API Recommended practice for planning, designing and constructing fixed offshore platforms*, American Petroleum Institute, Washington D.C., API RP2A, 115 pp.
- Australian Standards AS1726-1993. *Geotechnical site investigations*.
- Berezantzev, V. G., Khristoforov, V. S., and Golubkov, V. N. (1961). Load bearing capacity and deformation of piled foundations," *Proceedings of 5th Int'l Conf. on Soil Mechanics and Foundation Engineering*, Paris, 2, 11-15.
- Bishop, A. W. (1955). "The use of slip circle in the stability analysis of earth slopes," *Geotechnique*, 5(1), 7-17.
- Bishop, A. W. (1961). Discussion on "Soil properties and their measurement," *Proceedings of International Conference on Soil Mechanics*, 3, 97.
- Bishop, A. W., and Henkel, D. J. (1962). *The measurement of soil properties in the triaxial test*, Edward Arnold Ltd., London, 2nd Edition, 228.

- Bjerrum, L. (1972). "Embankments on soft ground," *Proceedings of ASCE Specialty Conference on Performance on Earth and Earth Supported Structures*, Purdue University, Indiana, USA, 2, 1-54.
- Bjerrum, L., and Kummeneje, O. (1961). "Shearing resistance of sand samples with circular and rectangular cross sections," *Norwegian Geotechnical Institute Publication No. 44*, 1.
- Bjerrum, L., and Simons, N. E. (1960). "Comparison of shear strength characteristics of normally consolidated clays," *Proceedings of the ASCE Research Conference on the Shear Strength of Cohesive Soils*, Boulder, 711-726.
- Bolin, H. W. (1941). "The pile efficiency formula of the uniform building code," *Building Standards Monthly*, 10(1), 4-5.
- Boussinesq, J. (1885). *Application des potentials a L'etude de l'equilibre et du mouvement des solides elastiques*, Gauthier-Villars, Paris.
- Bowles, J.E. (1988). *Foundation Analysis and Design*, 4th Edition, McGraw-Hill, 1004 pp.
- Bowles, J.E. (1996). *Foundation Analysis and Design*, 5th Edition, McGraw-Hill.
- Briaud, J-L., and Gibbens, R. M. (1994). *Predicted and measured behavior of five spread footings on sand*, Geotechnical Special Publication 41, ASCE, Texas.
- British Standards Institution. BS8004:1986. *British standard code of practice for foundations*, BSI, London, UK.
- Burland, J. B. (1970). Discussion, Session A. *Proceedings of Conference on In situ Investigations in Soils and Rocks*, British Geotechnical Society, London, 61-62.
- Burland, J. B., Broms, B. B., and De Mello, V. F. B. (1977). "Behaviour of foundations and structures," *Proceedings of 9th International Conference on Soil mechanics and Foundation Engineering*, Tokyo, 2, 495-538.

- Burland, J. B., and Burbidge, M. C. (1985). "Settlements of foundations on sand and gravel," *Proceedings of Institution of Civil Engineers*, December 78(1), 1325-1381.
- Burmister, D. M. (1949). "Principles and techniques of soil identification," *Proceedings of Annual Highway Research Board Meeting*, National Research Council, Washington, D.C., 29, 402-433.
- Canadian Geotechnical Society (1992). *Canadian Foundation Engineering Manual*, 3rd Edition.
- Canadian Geotechnical Society (2006). *Canadian Foundation Engineering Manual*, Fourth Edition.
- Casagrande, A. (1936). "The determination of the pre-consolidation load and its practical significance," Discussion D-34, *Proceedings of the First International Conference on Soil Mechanics and Foundation Engineering*, Cambridge, III, 60-64.
- Casagrande, A. (1938). *Notes on Soil Mechanics – First Semester*, Harvard University (unpublished).
- Casagrande, A. (1948). "Classification and identification of soils," *Transactions*, ASCE, 113, 901-930.
- Christian, J. T., and Carrier III, W. D. (1978). "Janbu, Bjerrum and Kjaernsli's chart reinterpreted," *Canadian Geotechnical Journal*, 15, 123-128.
- Coulomb, C. A. (1776). "Essai sur une application des règles de maximus et minimis à quelques problèmes de statique, relatifs à l'architecture," *Mémoires de Mathématique et de Physique, Présentés à l'Académie Royale des Sciences, par divers Savans, et lûs dans ses Assemblées*, Paris, 7 (Volume for 1773 published in 1776), 343-382.
- Craig, R.F. (2004). *Craig's soil mechanics*, 7th Edition, Spon Press.
- Das, B. M., and Sivakugan, N. (2007). "Settlements of shallow foundations on granular soils – An overview," *International Journal of Geotechnical Engineering*, 1(1), 19-29.
- Davisson, M. T. (1973). "High capacity piles", *Proceedings, Lecture Series, Innovations in Foundation Construction*, ASCE, Illinois, USA, 81-112.

- De Beer, E. E. (1968). "Proefondervindelijke bijdrage tot de studie van het grensdrag vermogen van zand onder funderingen op staal," *Tijdschrift der Openbar Verken van België.*, No. 6 1967 and Nos. 4-6, 1968.
- Duncan, J. M., and Buchignani, A. L. (1976). *An Engineering Manual for Settlement Studies*, Geotechnical Engineering Report, Dept. of Civil Engineering, University of California, Berkeley, USA, 94 pp.
- European Committee for Standardisation (1994). *Eurocode 7: Geotechnical Design – Part 1*, Brussels.
- Fellenius, W. (1936). "Calculation of the stability of earth dams," *Proceedings, Second Congress of Large Dams*, 4, 445-463.
- Gibbs, H. J., and Holtz, W. G. (1957). "Research on determining the density of sands by spoon penetration testing," *Proceedings of 4th International Conference on Soil Mechanics and Foundation Engineering*, London, Butterworths, 1, 35-39.
- Giroud, J-P. (1972). Settlement of rectangular foundation on soil layer, *Journal of Soil Mechanics and Foundations Division*, ASCE, 98(SM1), 149-154.
- Handy, R. L. and Spangler, M. G. (2007). *Geotechnical Engineering: Soil and Foundation Principles and Practice*, McGraw Hill.
- Hanna, A. M., and Meyerhof, G. G. (1981). "Experimental evaluation of bearing capacity of footings subjected to inclined loads," *Canadian Geotechnical Journal*, 18(4), 599-603.
- Hansen, J. B. (1970). *A revised and extended formula for bearing capacity*, Bulletin 28, Danish Geotechnical Society, Copenhagen.
- Hara, A., Ohata, T., and Niwa, M. (1971). "Shear modulus and shear strength of cohesive soils," *Soils and Foundations*, 14(3), 1-12.
- Hardin, B. O., and Black, W. L. (1968). "Vibration Modulus of Normally Consolidated Clays," *Journal of the Soil Mechanics and Foundations Division*, ASCE, 94(SM2), 353-369.
- Hardin, B. O., and Drnevich, V. P. (1972). "Shear Modulus and Damping in Soils: Design Equations and

Curves,” *Journal of the Soil Mechanics and Foundations Division*, ASCE, 98(SM7), 667-692.

Harr, M. E. (1977). *Mechanics of Particulate Media*, McGraw Hill.

Hatanaka, M., and Uchida, A. (1996). “Empirical correlations between penetration resistance and internal friction angle of sandy soils,” *Soils and Foundations*, 36(4), 1-10.

Holtz, R. D. (1991). Stress distribution and settlement of shallow foundations, Chapter 5, *Foundation Engineering Handbook*, Ed. H-Y. Fang, 2nd Edition, van Nostrand Reinhold, New York, 166-222.

Hvorslev, M. J. (1949). *Subsurface exploration and sampling of soils for civil engineering purposes*, Waterways Experiment Station, U.S. Army Corps of Engineers, Vicksburg.

Jaky, J. (1948). “Earth pressures in silos,” *Proceedings of the second international conference on soil mechanics and foundation engineering*, Rotterdam, I, 103-107.

Jamiolkowski, M., Ladd, C. C., Germaine, J. T., and Lancellotta, R. (1985). “New developments in field and laboratory testing of soils,” *Proceedings of the 11th International Conference on Soil Mechanics and Foundation Engineering*, San Francisco, 1, 57-154.

Janbu, N., Bjerrum, L. and Kjaernsli, B. (1956). *Veiledning ved losning av fundamenteringsoppgaver*, Norwegian Geotechnical Institute Publication 16, Oslo, 30-32.

Kenny, T. C. (1959). Discussion of “Geotechnical properties of glacial lake clays,” by T.H. Wu, *Journal of Soil Mechanics and Foundations Division*, ASCE, 85(SM3), 67-79.

Kovacs, W.D. and Salomone, L.A. (1982). “SPT hammer energy measurement,” *Journal of the Geotechnical Engineering Division*, ASCE, 108(4), 599-620.

Kulhawy, F. H. (1984). “Limiting tip and side resistance, fact or fallacy” *Symposium on Analysis and Design of Pile Foundations*, Ed. J.R. Meyer, ASCE, San Francisco, 80-98.

Kulhawy, F. H., and Mayne, P. W. (1990). *Manual on estimating soil properties for foundation design*, Final report EL-6800, Electric Power Research Institute, Palo Alto, CA, USA.

- Lade, P. V., and Lee, K. L. (1976). *Engineering properties of soils*, Report, UCLA-ENG-7652, 145 pp.
- Ladd, C. C., Foote, R., Ishihara, K., Schlosser, F., and Poulos, H. G. (1977). "Stress deformation and strength characteristics," State-of-the-art report, *Proceedings of the 9th ICSMFE*, Tokyo, 2, 421-494.
- Lambe, T. W and Whitman, R. V. (1979). *Soil Mechanics*, John Wiley & Sons.
- Lee, K. L. (1970). "Comparison of plane strain and triaxial tests on sand," *Journal of the Soil Mechanics and Foundations Division, ASCE*, 96(SM3), Paper 7276, 901-923.
- Lee, K. W., and Singh, A. (1971). "Relative density and relative compaction," *Journal of the Soil Mechanics and Foundations Division, ASCE*, 97(SM7), 1049-1052.
- Leonards, G. A. (1986). *Advanced Foundation Engineering – CE 683*, Lecture Notes, Purdue University.
- Lysmer, J., and Richart, F.E., Jr. (1966). "Dynamic Response of Footings to Vertical Loading," *Journal of the Soil Mechanics and Foundations Division, ASCE*, 91(SM1), 66-92.
- Mayne, P. W., and Kemper, J. B. (1988). "Profiling OCR in stiff clays by CPT and SPT," *Geotechnical Testing Journal, ASTM*, 11(2), 139-147.
- Mayne, P. W., and Kulhawy, F. H. (1982). " K_0 -OCR Relationships in soils," *Journal of the Geotechnical Division, ASCE*, 108(6), 851-872.
- McCarthy, D. F. (12007). *Essentials of Soil Mechanics and Foundations*, 7th Edition, Pearson Prentice Hall.
- Mesri, G. (1989). "A reevaluation of $s_{u(mob)} \approx 0.22 \sigma'_p$ using laboratory shear tests," *Canadian Geotechnical Journal*, 26(1), 162-164.
- Meyerhof, G. G. (1956). "penetration tests and bearing capacity of cohesionless soils," *Journal of the Soil Mechanics and Foundations Division, ASCE*, 82(SM1), 1-19.
- Meyerhof, G. G. (1963). "Some recent research on bearing capacity of foundations," *Canadian Geotechnical Journal*, 1(1), 16-26.

- Meyerhof, G. G. (1976). "Bearing capacity and settlement of pile foundations," *Journal of Geotechnical Engineering Division*, ASCE, 102(GT3), 197-228.
- Mohr, O. (1900). "Welche umstände bedingen die elastizitätsgrenze und den bruch eines materiales," *Zeitschrift des Vereines Deutscher Ingenieure*, 44, 1524-1530; 1572-1577.
- Morgenstern, N. R., and Price, V. E. (1965). "The analysis of the stability of general slip surfaces," *Geotechnique*, 15(1), 79-93.
- Morris, P.M. and Williams, D.T. (1994). "Effective stress vane shear strength correction factor correlations," *Canadian Geotechnical Journal*, 31(3), 335-342.
- Newmark, N. M. (1942). *Influence charts for computation of stresses in elastic soils*, University of Illinois Experiment Station, Bulletin No. 338.
- Peck, R. B., Hanson, W. E., and Thornburn, T.H. (1974). *Foundation design*, John Wiley & sons, New York, USA.
- Poulos, H. G., and Davis, E. H. (1974). *Elastic Solutions for Soil and Rock Mechanics*, John Wiley & Sons.
- Poulos, H. G., and Davis, E. H. (1980). *Pile Foundation Analysis and Design*, John Wiley & Sons.
- Prandtl, L. (1921). "Über die eindringungsfestigkeit plastischer baustoffe und die festigkeit von schneiden," *Z. Angew. Math. Mech.*, Basel, Switzerland, 1(1), 15-20.
- Reissner, H. (1924). "Zum erddruck-problem", *Proceedings of First International Congress on Applied Mechanics*, Delft, 295-311.
- Raj, P. P. (1995). *Geotechnical Engineering*, Tata-McGraw-Hill.
- Rankine, W. J. M. (1857). "On the stability of loose earth" *Philosophical Transaction of the Royal Society*, 147, London.
- Richart, F. E., Jr., Hall, J. R., and Woods, R. D. (1970). *Vibration of Soils and Foundations*, Prentice-Hall, Inc.,

Englewood Cliffs, New Jersey.

Robertson, P. K., and Campanella, R. G. (1983). "Interpretation of cone penetration tests. Part I: sand," *Canadian Geotechnical Journal*, 20(4), 718-733.

Robertson, P. K., Campanella, R. G., and Wightman, A. (1983). "SPT-CPT correlations," *Journal of Geotechnical Engineering*, ASCE, 109(11), 1449-1459.

Robertson, P. K., Campanella, R. G., Gillespie, D., and Greig, J. (1986). "Use of piezometer cone data," *Use of In Situ Tests in Geotechnical Engineering*, Geotechnical Special Publication, No. 6, ASCE, 1263-1280.

Sanglerat, G. (1972). *The penetrometer and soil exploration*, Elsevier, Amsterdam.

Schmertmann, J. H. (1955). "The undisturbed consolidation behavior of clays," *Transactions*, ASCE, 120, 1201-1233.

Schmertmann, J. H. (1970). "Static cone to compute static settlement over sand," *Journal of the Soil Mechanics and Foundations Division*, ASCE, 96(SM3), 1011-1043.

Schmertmann, J. H. (1975). "Measurement of in situ shear strength," *Proceedings of specialty conference on in situ measurements of soil properties*, Raleigh, NC, 2, 57-138.

Schmertmann, J. H. (1978). *Guidelines for cone penetration test performance and design*, Federal Highway Administration, Report FHWA-TS-78-209, Washington DC, 145 p.

Schultze, E., and Horn, A. (1967). "The base friction for horizontally loaded footings in sand and gravel," *Geotechnique* 17, 4, 329-347.

Shukla, S.K., Sivakugan, N., and Das, B.M. (2009). "Methods for determination of the coefficient of consolidation and the time-rate of settlement – an overview," *International Journal of Geotechnical Engineering*, J. Ross Publishing, USA, 3(1), 89-108.

- Sivakugan, N., Eckersley, J. D., and Li, H. (1998). "Settlement predictions using neural networks," *Australian Civil Engineering Transactions*, The Institution of Engineers, Australia, CE40, 49-52.
- Sivakugan, N. and Johnson, K. (2004). "Settlement predictions in granular soils: a probabilistic approach," *Geotechnique*, 54(7), 499-502.
- Skempton, A. W. (1944). "Notes on compressibility of clays," *Quarterly Journal of the Geological Society of London*, 100, 119-135.
- Skempton, A. W. (1951). "The bearing capacity of clays," *Proceedings of Building Research Congress*, Div. I, 180-189.
- Skempton, A. W. (1954). "The pore-pressure coefficients A and B," *Geotechnique*, 4, 143-147.
- Skempton, A. W. (1957). Discussion on "The planning and design of the new Hong Kong airport," *Proceedings of the Institution of Civil Engineers*, London, 7, 305-307.
- Skempton, A. W. (1986). "Standard penetration test procedures and the effects in sands of overburden pressure, relative density, particle size, ageing and overconsolidation," *Geotechnique*, 36(3), 425-447.
- Skempton, A. W. and Bjerrum, L. (1957). "A contribution to settlement analysis of foundations on clay," *Geotechnique*, 7, 168-178.
- Smith, E. A. L. (1960). "Pile driving analysis by the wave equation," *Journal of the Soil Mechanics and Foundations Division*, ASCE, 86 (SM4), 35-61.
- Spencer, E. (1967). "A method of analysis of the stability of embankments assuming parallel inter-slice forces," *Geotechnique*, 17(1), 11-26.

- Tan, C. K. and Duncan, J. M. (1991). "Settlement of footings on sands: accuracy and reliability," *Proceedings of Geotechnical Engineering Congress 1991*, Geotechnical Special Publication No. 27, ASCE, Colorado, 1, 446-455.
- Taylor, D. W. (1948). *Fundamentals of Soil Mechanics*, John Wiley & Sons, New York.
- Taylor, D. W. (1937). "Stability of earth slopes," *Journal of Boston Society of Civil Engineers*, 24, 197-246.
- Terzaghi, K. (1925). *Erdbaumechanik auf Bodenphysikalischer Grundlage*, Franz Deuticke, Leipzig und Wien, 399.
- Terzaghi, K. (1943). *Theoretical soil mechanics*, John Wiley, New York.
- Terzaghi, K., and Peck, R. B. (1948). *Soil mechanics in engineering practice*, John Wiley & Sons, NY, USA.
- Terzaghi, K., and Peck, R. B. (1967). *Soil mechanics in engineering practice*, 2nd Edition, John Wiley & Sons, New York.
- Terzaghi, K., Peck, R. B., and Mesri, G. (1996). *Soil Mechanics in Engineering Practice*, 3rd Edition, John Wiley & Sons, New York.
- Tomlinson, M.J . (1995). *Foundation Design and Construction*, 6th Edition, Longman Scientific & Technical, 536 pp.
- U.S. Army (1993). *Design of Pile foundations*, Technical Engineering and Design Guides, ASCE.
- U.S.Army (1994). *Settlement Analysis*, Technical Engineering and Design Guides, ASCE.
- U.S.Navy (1971). *Soil Mechanics, Foundations and Earth Structures*, NAVFAC Design Manual DM-7, Washington D.C., USA.
- Vesic, A. S. (1961). "Bending of beams resting on isotropic solid," *Journal of the Engineering Mechanics Division*, ASCE, 87(EM2), 35-53.

- Vesic, A. S. (1970). "Tests on instrumented piles – Ogeechee river site," *Journal of the Soil Mechanics and Foundations Division*, ASCE, 96(SM2), 561-584.
- Vesic, A. S. (1973). "Analysis of ultimate loads of shallow foundations," *Journal of Soil mechanics and Foundations Division*, ASCE, 99(SM1), 45-73.
- Vesic, A. S. (1975). Bearing capacity of shallow foundations, Chapter 3, *Foundation Engineering Handbook*, Eds. Winterkorn, H.F. and Fang, H-Y., Van Nostrand Reinhold Co.
- Vesic, A. S. (1977). *Design of pile foundations*, National Cooperative Highway Research Program Synthesis of Practice No. 42, Transportation Research Board, Washington D.C., USA.
- Westergaard, H.M. (1938). "A problem of elasticity suggested by a problem in soil mechanics: a soft material reinforced by numerous strong horizontal sheets," *Contributions to the Mechanics of Solids, Stephen Timoshenko 60th Anniversary Volume*, Macmillan, New York, 268-277.
- Wolff, T.F. (1989). "Pile capacity prediction using parameter functions," *Predicted and Observed Axial Behavior of Piles, Results of a Pile Prediction Symposium*, Evanston, IL, ASCE Geotechnical Special Publication, 96-106.

REFERENCES

- Hall, J.R., Jr. (1967). "Coupled Rocking and Sliding Oscillations of Rigid Circular Footings," *Proceedings, International Symposium on Wave Propagation and Dynamic Properties of Earth Materials*, Albuquerque, New Mexico, pp. 139-148.
- Hardin, B.O., and Black, W.L. (1968). "Vibration Modulus of Normally Consolidated Clays," *Journal of the Soil Mechanics and Foundations Division*, ASCE, Vol. 94, No. SM2, pp. 353-369.
- Hardin, B.O., and Drnevich, V.P. (1972). "Shear Modulus and Damping in Soils: Design Equations and Curves," *Journal of the Soil Mechanics and Foundations Division*, ASCE, Vol. 98, No. SM7, pp. 667-692.
- Lysmer, J., and Richart, F.E., Jr. (1966). "Dynamic Response of Footings to Vertical Loading," *Journal of the Soil Mechanics and Foundations Division*, ASCE, Vol. 91, No. SM1, pp. 66-92.

Richart, F.E., Jr., Hall, J.R., and Woods, R.D. (1970). *Vibration of Soils and Foundations*, Prentice-Hall, Inc., Englewood Cliffs, New Jersey.