

REFERENCES

- 1) Asalemi A.A, 2006, Application of seismic cone for characterization of ground improved by vibro-replacement, Ph.D dissertation. University of British Columbia.
- 2) Baladi, G., Bellotti, R., Ghionna, V., Jamiolkoswaki, M. and Pasqualani, E., (1986) "Interpretation of CPT's and CPTU's; 2nd part: drained penetration of sands". Proceedings of the Fourth International Geotechnical Seminar, Singapore, 143-56.
- 3) Bodare, A., and Orrje, O., 1985. Impulse load on a circular surface in an infinite elastic body - Closed solution according to the theory of elasticity. Rapport 19, Royal Institute of Technology (KTH), Stockholm, Sweden, 88 p.
- 4) Briaud, J.-L. and J. Miran, *The Cone Penetrometer Test*, Report FHWA-SA-91-043, Federal Highway Administration, Washington, D.C., Feb. 1992, 161 pp.

University of Moratuwa, Sri Lanka
Electronic Theses & Dissertations
www.lib.mrt.ac.lk
- 5) Brouwer J.J.M, 2002, Guide to cone penetration test, PP 123-142 .
- 6) Campanella, R.G. and P.K. Robertson, "Current Status of the Piezocone Test," *Proceedings of the First International Symposium on Penetration Testing*, Vol. 1, Orlando, Fla. (*Penetration Testing 1988*), Balkema, Rotterdam, The Netherlands, Mar. 20–24, 1988, pp. 93–116.
- 7) Dahlberg, R., "Penetration, Pressuremeter, and Screw-Plate Tests in a Preloaded Natural Sand Deposit," Proceedings of the European Symposium on Penetration Testing, Vol. 2.2, Stockholm, Sweden, 1974, pp. 68–87.
- 8) deRuiter, J., "Electric Penetrometer for Site Investigations," *Journal of the Soil Mechanics and Foundations Division*, Vol. 97, No. SM2, 1971, pp. 457–472

- 9) Eslami, A., and Fellenius, B.H., 1997. Pile capacity by direct CPT and CPTu methods applied to 102 case histories. Canadian Geotechnical Journal, Vol. 34, No. 6, pp. 880-898.
- 10) Fellenius, B.H., and Eslami, A., 2000. Soil profile interpreted from CPTu data. Proceedings of the International Conference "Year 2000 Geotechnics", Bangkok, November 27-30, 2000.
- 11) Fellenius, B. H. & Massarsch, K. R., 2001. Deep compaction of coarse-grained soils - A case history. 2001 - A Geotechnical Odyssey: The 54th Annual Canadian Geotechnical Conference. Paper submitted for publication, 8 p.
- 12) Fioravante, V., M. Jamiolkowski, V.N. Ghionna, and S. Pedroni, "Stiffness of Carbonatic Quiou Sand from CPT," Geotechnical Site Characterization, Vol. 2, Balkema, Rotterdam, The Netherlands, 1998, pp. 1039-1049.
- 13) Goklap A and Duzceer R, 2003, Vibratory deep compaction of hydraulic fills, viewed 22 December 2012,
- <http://www.kasktas.com.tr/eng/teknikdokuman/13.ECSMGE%20Vibrofotation.pdf>
- 14) Greenwood, D.A., and Kirsch, K. 1983. Specialist ground treatment by vibratory and dynamic methods, Advances in Piling and Ground Treatments for Foundation, London.
- 15) Hamidi B, Varaksin S, and Nikraz H, 2011, A Case of vibro-compaction vibration monitoring in a reclaimed site, viewed 22 December 2012,
- <http://www.gfwa.com.au/pdf%20files/Publications/Babak%20Hamidi%20et%20aICAGE2011.A%20Case%20Study%20of%20Vibro%20Compaction%20Vibration%20Monitoring%20in%20a%20Reclaimed%20Site.pdf>

- 16) Hamouche, K.K., S. Leroueil, M. Roy, and A.J. Lutenecker, "In-Situ Evaluation of K₀ in Eastern Canada Clays," Canadian Geotechnical Journal, Vol. 32, No. 4, 1995, pp. 677–688.
- 17) Jamiolkowski, M., Ladd, C.C., Germaine, J.T. and Lanellotta, R. (1985) "New development in the field and laboratory testing of soils". State-of-the art report. Proceedings of the 11th International Conference on Soil Mechanics and Foundation Engineering, San Francisco, 1, 57-153, Balkema Pub. , Rotterdam.
- 18) Jamiolkowski, M., Ghionna, V. N, Lancelotta R. and Pasqualini, E., (1988). New correlations of penetration tests for design practice. Proceedings Penetration Testing, ISOPT-1, DeRuiter (ed.), Balkema, Rotterdam, ISBN 90 6191 801 4, pp 263 296.
- 19) Joseph E. Bowels, 1997, Foundation analysis and design, PP-56-76.
- [University of Moratuwa, Sri Lanka.](#)
- 20) Krogh, P. and Lindgren, A. 1997. Dynamic field measurements during deep compaction at Changi Airport, Singapore, Examensarbete 97/9. Royal Institute of Technology (KTH), Stockholm, Sweden, 88 p.
- 21) Kulhawy, F.H. and P.W. Mayne, Manual on Estimating Soil Properties for Foundation Design, Report EPRI EL-6800, Electric Power Research Institute, Palo Alto, Calif., 1990, 306 pp.
- 22) Lunne, T., T. Eidsmoen, D. Gillespie, and J.D. Howland, "Laboratory and Field Engineering (GSP 6), American Society of Civil Engineers, , Va., 1986, pp. 714–729.
- 23) Lunne, T., P.K. Robertson, and J.J.M. Powell, Cone Penetration Testing in Geotechnical Practice, Blackie Academic, EF Spon/Routledge Publishers, New York, N.Y., 1997, 312 pp.
- 24) Lunne.T, Robertson P.K, AND Powel J.J, 2002, Cone penetration testing in geotechnical practice, PP 54-65.

- 25) Mayne, P.W. and Kulhawy, F.H. (1982). K0-OCR relationship in soil. ASCE Journal of Geotechnical Engineering, 108 (6), pp. 851- 870.
- 26) Massarsch, K.R., 1991. Deep Soil Compaction Using Vibratory Probes. American Society for testing and Material, ASTM, Symposium on Design, Construction, and Testing of Deep Foundation Improvement: Stone Columns and Related Techniques, Robert C. Bachus, Ed. ASTM Special Technical Publication, STP 1089, Philadelphia, pp. 297 319.
- 27) Massarsch K.R, Fellenius B.H, 2005, Deep vibratory compaction of granular soils, Chapter 19 in Ground improvement-case histories, Elsevier publishers, B. Indranatna and C. Jian, Editors, pp. 633 - 658.
- 28) Mackiewicz S.M, and Camp W.M, 2006, Ground improvement: How much improvement, viewed 22 December 2012.
- http://www.kleinfelder.com/kleinfelder/assets/File/Artcl_Tech_Papers/GroundModification_How_Much_Improvement_TP.pdf
- 29) Massarsch K.R, 2002, Effects of vibratory compaction, viewed 22 December 2012, <http://geotecnica.dicea.unifi.it/massarsch.pdf>
- 30) Massarsch, K.R., and Fellenius, B.H., 2002, Vibratory compaction of coarse-grained soils. Canadian geotechnical journal, 39(3) 695-709.
- 31) Mecsi J, Gökalp A and Düzceer R, 2005, Densification of hydraulic fills by vibro-flotation technique, viewed 22 December 2012,
- <http://www.kasktas.com.tr/teknikdokuman/16.ISSMGE%20Vibroflotation.pdf>
- 32) Mitchell, J.K. and T. Lunne, "Cone Resistance as a Measure of Sand Strength," Journal of Geotechnical Engineering, Vol. 104 (GT7), 1978, pp. 995–1012.

- 33) Mitchell, J.K., 1982. Soil improvement-State-of-the-Art, Proceedings, 10th International Conference on Soil Mechanics and Foundation Engineering, ICSMFE, Stockholm, June, Vol. 4., pp. 509–565.
- 34) Moseley, M.P. and Priebe, H.J., 1983. Vibro technique. In: M.P. Moseley (ed), *Ground Improvement*, Blackie Academic and Professional.
- 35) Moseley M.P and Kirsck.K, 2005, Ground improvement, P.P 57-93.
- 36) Morioka, B.T. and P.G. Nicholson, “Evaluation of Liquefaction Potential of Calcareous Sand,” Proceedings, Tenth International Offshore and Polar Engineering Conference, Seattle, Wash., May 28–June 2, 2000, pp. 494–500.
- 37) Nutt, N.R.F. and G.T. Houlsby, “Calibration Tests on the Cone Pressuremeter in Carbonate Sand,” *Calibration Chamber Testing*, Elsevier, New York, N.Y., 1991, pp. 265–276.
- [University of Moratuwa, Sri Lanka.](#)**
- 38) Parkin, A.J.K. ~~E~~[Chamber Testing of Piles in Calcareous Sand and Silt](#), ~~E~~[Chamber Testing](#), Elsevier, New York, N.Y., 1991, pp. 289–302.
- 39) Salgado, R., J.K. Mitchell, and M. Jamiolkowski, “Calibration Chamber Size Effects on Penetration Resistance in Sand,” *Journal of Geotechnical and Geo-environmental Engineering*, Vol. 124, No. 9, 1998, pp. 878–888.
- 40) Schmertmann, J.H., 1985. Measure and use of the in situ lateral stress. *Practice of Foundation Engineering*, A Volume Honoring Jorj O. Osterberg. Edited by R.J. Krizek, C.H. Dowding, and F. Somogyi. Department of Civil Engineering, The Technological Institute, Northwestern University, Evanston, pp. 189–213.
- 41) Schmertmann, J.H., “Use the SPT to Measure Soil Properties?” *Dynamic Geotechnical Testing*, Special Technical Publication No. 654, American Society for Testing and Materials, West Conshohocken, Pa., 1978b, pp. 341–355.

- 42) Transport Research Board Washington DC, 2007, Cone penetration testing manual, PP 23, 41-46.



University of Moratuwa, Sri Lanka.
Electronic Theses & Dissertations
www.lib.mrt.ac.lk