

Références bibliographiques

Abedi, M., Yasrobi, S. S. (2010). Effects of plastic fines on the instability of sand. *Soil dynamics and earthquake engineering*, 30(3), pp. 61-67.

Amini F. & Sama K.M. (1999). Behavior of stratified sand-silt-gravel composites under seismic liquefaction conditions. *Soil dynamic and earthquake engineering*, 18, pp. 445-455.

Amini F. & Qi G.Z. (2000). Liquefaction testing of stratified silty sands. *Journal of geotechnical engineering Division, Proc. ASCE*, 126 (3), pp. 208-217.

Andrews, D. C., Martin, G. R. (2000). Criteria for liquefaction of silty soils. In *Proc., 12th World Conf. on earthquake engineering*. Upper Hutt, New Zealand: NZ Soc. for EQ. Engrg.

Arab A. (2009). Comportement monotone et cyclique d'un sable limoneux. *C. R. Mécanique* 337, 621-631.

Arab A. et al (2010). Etude en laboratoire de l'amélioration des sols par l'augmentation de la densité relative. *Université Hassiba Benbouali de Chlef (Algérie)*, 26-27 Octobre, pp. 3-7.

Arab A., Shahrour I. (2009). Effet de la saturation sur le comportement monotone et cyclique d'un sable. *Colloque International sols non saturés et environnement UNSAT*, les 27 et 28 Octobre, Tlemcen, pp. 2-15.

Arab A., Belkhatir M., Shahrour I., (2012). Saturation Effect on Liquefaction Resistance of Sand. *Rencontres AUGC-IBPSA Chambéry, Savoie*, 6-8 juin, pp.1-11.

Hanifi Missoum, Mostefa Belkhatir, Karim Bendani, Mustapha Maliki (2013). Laboratory Investigation into the Effects of Silty Fines on Liquefaction Susceptibility of Chlef (Algeria) Sandy Soils.

Baziar, M. H., Jafarian, Y., Shahnazari, H., Movahed, V., Amin Tutunchian, M. (2011). Prediction of strain energy-based liquefaction resistance of sand-silt mixtures: An evolutionary approach. *Computers and Geosciences*, 37(11), pp. 1883-1893.

Benahmed, N. (2001). Comportement mécanique d'un sable sous cisaillement monotone et cyclique: application aux phénomènes de liquéfaction et de mobilité cyclique. *Thèse de doctorat, Ecole Nationale des Ponts et Chaussées, Paris (France)*.

- Benahmed N. Canou J. & Dupla J.C. (2004).** Structure initiale et propriétés de liquéfaction statique d'un sable. *Comptes Rendus de Mécanique*, Elsevier, 332, pp. 887-894.
- Beroya, M. A. A., Aydin, A., Katzenbach, R. (2009).** Insight into the effects of clay mineralogy on the cyclic behavior of silt-clay mixtures. *Engineering Geology*, 106(3), pp. 154-162.
- Bouferra R., & Shahrour I., (2004).** Influence of fines on the resistance to liquefaction of a clayey sand. *Ground Improvement* 8(1), pp. 1-5.
- Bouckovalas G.D, Andrianopoulos K. I., Papadimitriou A.G. (2002).** A critical state interpretation for the cyclic liquefaction resistance of silty sands. *Soil Dynamic and earthquake engineering*, 23(2), pp. 115-125.
- Boulanger, R.W., Idriss, I.M. (2006).** Liquefaction susceptibility criteria for silts and clays. *Journal of Geotechnical and Geoenvironmental Engineering*, 132(11), pp. 1413-1426.
- Boominathan A, Hari S. (2002).** Liquefaction strength of fly ash reinforced with randomly distributed fibers. *Soil Dynamics and Earthquake Engineering*, 22, pp.1027-1033.
- Bray, J. D., Sancio, R. B. (2006).** Assessment of the liquefaction susceptibility of finegrained soils. *Journal of Geotechnical and Geoenvironmental Engineering*, 132(9), pp. 1165-1177.
- Canou J. (1989).** Contribution l'étude et à l'évaluation des propriétés de liquéfaction d'un sable. Thèse de Doctorat, Ecole Nationale Des Ponts et Chaussées, Paris (France).
- Chen, C. S., Xiao, H. B. (2013).** Liquefaction Potential of Clayey Soils from Wenchuan Earthquake-Induced Landslides. *Advanced Materials Research*, 639, pp. 850-853.
- Casagrande A. (1936).** Characteristic of cohesionless soil affecting the stability of slopes and earth fills. *Journal of the Boston Society of Civil Engineers*. pp. 257-276.
- Chienet, L. K., Oh, Y. N. and Chang, C. H. (2002).** Effects of Fines Content on Liquefaction Strength and Dynamic Settlement of Reclaimed Soil. *Canadian Geotechnical Journal*, 39(1), pp. 254-265.
- ChoySoon Tana, Aminaton Martob, Ahmad Mahir Makhtarb (2015).** Liquefaction resistance of Sand. *Matrix Soils*, pp 67–72.

- Della, N. (2010).** Etude expérimentale du comportement du sol de Chlef: Liquéfaction statique. Thèse de doctorat en génie civil, Université de Mostaganem (Algérie).
- Della N, Arab A, Belkhatir M et Missoum H. (2011).** Influence de la méthode de reconstitution d'un sable lâche sur la résistance statique à la liquéfaction». XXIXe Rencontres Universitaires de Génie Civil. Tlemcen, 29 au 31 Mai.
- Della, N., Arab, A., Belkhatir, M. and Missoum H. (2009).** Identification of the behaviour of the Chlef sand to static liquefaction. C.R. Mécanique, 337, pp. 282-290.
- Derakhshandi, M., Rathje, E. M., Hazirbaba, K., Mirhosseini, S. M. (2008).** The effect of plastic fines on the pore pressure generation characteristics of saturated sands. Soil Dynamics and Earthquake Engineering, 28(5), pp. 376-386.
- Hosri, M. S., Biarez, H., Hicher, P. Y. (1984).** Liquefaction characteristics of silty clay. In Proc. Eight World Conf. On Earthquake Eng. Prentice Hall, NJ, pp. 277-284.
- Fourie, A.B., Blight, G.E., Papageorgiou, G. (2001).** Static liquefaction as a possible explanation for the Merriespruit tailings dam failure. Canadian Geotechnical Journal, 38(4), pp. 707-719.
- Finn W.D., Ledbetter R.H. & Wu G. (1994).** Liquefaction on silty soils: Design and analysis. Ground failures under seismic conditions, Geotech. Spec. Publication, 44, ASCE, New York, pp. 51-76.
- Ghahremani, M., Ghalandarzadeh, A. (2006).** Effect of plastic fines on cyclic resistance of sands. Geotechnical Special Publication, pp. 150-406.
- Gratchev, I. B., Sassa, K., Fukuoka, H. (2006).** How reliable is the plasticity index for estimating the liquefaction potential of clayey sands. Journal of geotechnical and geoenvironmental engineering, 132(1), pp. 124-127.
- Guo, T., Prakash, S. (2000).** Liquefaction of silt-clay mixtures. In Proc., 12th World Conf. on Earthquake Engineering. NZ Soc. for EQ Engrg.
- Hazen, A. (1920).** Hydraulic fill dams. Transactions of the American Society of Civil Engineers, 83, pp. 1713-1745.

- Holzer, T. L., Jayko, A. S., Hauksson, E., Fletcher, J. P., Noce, T. E., Bennett, M. J., Hudnut, K. W. (2010).** "Liquefaction caused by the 2009 Olanca, California (USA), iMi 5.2 earthquake", *Engineering Geology*, 116(1), 184-188.
- Ishihara K. (1993)** « Liquefaction and flow failure during earthquakes», The 33rd Rankine lecture, *Geotechnique*, 43(3), pp. 351-415.
- Ishihara, K., Yasuda, S., Yoshida, Y. (1990).** "Liquefaction-induced flow failure of embankments and residual strength of silty sands", *Soils and Foundations*, 30(3), 69-80.
- James M. (2009).** The use of waste rock inclusions to control the effects of liquefaction in tailings impoundments. Thèse de Ph.D, Génie Minéral, École Polytechnique de Montréal, Québec, Canada.
- Kenny T.C. (1977):** « Residual strengths of mineral mixtures», *Proc. 9th Int.Conf. Soil Mech.*, Tokyo 1, 155-160.
- Kishida, H. (1969)** "Characteristics of liquefied sands during Mino-Owari, Tohankai and Fukui earthquakes", *Soil and foundation*, 9(1), 75-92.
- Konrad J.M., Flavigny E. & Meghachou M. (1990):** « Comportement non drainé du sable d'Hostun Rf Lâche», *revue Française de géotechnique*, N°54, pp. 53-63.
- Kuerbis R., Negussey D. & Vaid V.P. (1988):** « Effect on gradation and fines content on the undrained response of sand», *Proceedings hydraulic Fill structures*, Fort Collins, USA, pp. 330-345.
- Kramer, S.L. et Seed, H.B. (1988)** « Initiation of soil liquefaction under static loading condition». *Journal of Geotechnical Engineering*, 114(4): 412-430.
- Ku, C.S., Lee, D.H., Wu, J.H. (2004).** "Evaluation of soil liquefaction in the Chi-Chi, Taiwan earthquake using CPT", *Soil Dynamics and Earthquake Engineering* 24, 659-673.
- Lade, P.V. (2012).** "Reply to the discussion by Jefferies, Been, and Olivera on Evaluation of static liquefaction potential of silty sand slopes", *Canadian Geotechnical Journal*, 49(6), 751-752.
- Lade R.S. (1974):** «Specimen preparation and liquefaction of sands», *Journal Geotechnical Engineering*, vol. 100, GT 10, pp. 1180-1184.
- Lade P.V. & Yamamuro J.A. (1997)** « Effects of nonplastic fines on static liquefaction sands», *Canad. Geotech. Journal*, Ottawa 34, pp. 918-928.

Lade P.V et Yamamuro J.A. (1998). « Effects of non-plastic fines on static liquefaction of sands », Canadian Geotechnical Journal, vol. 34, 1997, p. 905-917.

Lav, A.H., Kenny, P.J. (1 997). Fly ash production and its using in road construction. Road & Transportation Research. Vol. 6 No 3. 7p.

Lee K.L. (1965) «Triaxial compressive strength of saturated sands under seismic loading conditions», PhD, University of California, Berkeley, California, 521p.

Lee K.L. & Fitton J.A. (1968):«Factors effecting the dynamic strength of soil. Vibration affects on soil and foundation » ASTM, STP450, American society for testing and materials.

Lee, S. H. H., Huang, J. H., Widjaja, B., Chang, D. W. (2013). "The Phase Concept for Liquefaction in Both Sandy and Clayey Soils", Journal of Applied Science and Engineering, 16(1), 15-22.

Lawton, E.C., (2004) .Non grouting techniques. In: Practical foundation engineering handbook, Mc Graw- Hill Companies, USA, 340p

Maheshwari, B. K., Patel, A. K. (2010). "Effects of non-plastic silts on liquefaction potential of Solani sand", Geotechnical and Geological Engineering, 28(5), 559-566.

Martin G.R., Finn W.D.L. &Seed H.D. (1978) « Effects of system compliance on liquefaction tests», Journal of Geotechnical Engineering Division, ASCE, vol. CIV, NGT4, pp82-94.

Marto, A., Tan, C.S. (2012) « Short Review on Liquefaction Susceptibility » International Journal of Engineering Research and Applications. 2(3): 2115-2119.

Moss, R. E. S., Chen, G. (2008). "Comparing liquefaction procedures in the US and China", In Proc., 14th World Conf. on Earthquake Engineering. Beijing: International Association for Earthquake Engineering (IAEE).

Mitchell J.K. (1993): « Fundamentals of soil behaviour», 2nd ed., New York; John Wiley & Sons, Inc., 450 pp.

McKenzie D. (1970) « Plate tectonics of the Mediterranean region », La Nature, Paris, Vol.226, p. 239-243.

McKenzie D. (1972) « Active tectonics of the Mediterranean region », *Geophysical Journal of the Royal Astronomical Society*.

Meghachou, M. (1993) « Stabilité des sables lâches : essais et modélisations ». Thèse de doctorat Université Joseph Fourier-Grenoble.

Meghraoui M., Philip H., Aissaoui D., Andrieux S., Armijo R. (1981) « les ruptures de surface du séisme d'El Asnam du 10 Octobre 1980 : leurs rapports avec les structures géotectonique ». Journées Scientifiques sur le séisme d'Ech-Cheliff. O.N.R.S., Éd. Alger.

Meghraoui M. (1982) « Etude néotectonique de la région NE d'El-Asnam: relation avec le séisme du 10 octobre 1980 », Thèse de 3ème Cycle, Université de Paris.

Mulilis J.P., Seed H.B., Clarence K.C., Mitchell J.K. & Arulanadan K. (1977) « Effects of sample preparation on sand liquefaction », *J. Geotech. Div.*, vol. 103; n° GT2, pp. 91-108.

Miura, S., Kawamura, S., Yagi, K. (1995). "Liquefaction damage of sandy and volcanic grounds in the 1993 Hokkaido Nansei-Oki earthquake", In *Proc. 3rd Int. Conf. on Recent Advances in Geotechnical Earthq. Engg. and Soil Dynamics*, St. Louis, MO. Vol. 1, pp. 193-196.

Muhunthan, B., Worthen, D. L. (2011). "Critical state framework for liquefaction of fine grained soils", *Engineering Geology*, 117(1), 2-11.

Olson, S.M., Stark, T.D., Walton, W.H., Castro, G. (2000). "1907 static liquefaction flow failure of the north dike of Wachusett dam", *Journal of Geotechnical and Geoenvironmental Engineering*, 126(12), 1184-1193.

Park, S. S., Kim, Y. S. (2012). "Liquefaction Resistance of Sands Containing Plastic Fines with Different Plasticity", *Journal of Geotechnical and Geoenvironmental Engineering*.

Papastamiou D. (1980) « El-Asnam, Algeria earthquake of October 10, 1980: field evidence of ground motion in the epicentral region », *Geognosy Ltd.*, London.

Plewes, H.D., O'Neil, G.D., McRoberts, E.C., Chan, W.K. (1989). "Liquefaction considerations for Suncor tailings pond", In *Proceedings of the Dam Safety Seminar*, Edmonton, Alberta, Sept (Vol. 1, pp. 61-89).

Perlea, V. G. (2000). "Liquefaction of Cohesive Soils", In *Soil Dynamics and Liquefaction 2000* (pp. 58-76).

Pitman, T.D., Robertson, P.K., Sego, D.C. (1994). "Influence of fines on the collapse of loose sands", Canadian Geotechnical Journal, 31(5), 728-739.

Polito C.P. (1999): « Effects on non-plastic fines on the liquefaction of sandy soils», PhD thesis, Faculty of the Virginia Polytechnic Institute and state university, December 1999.

Polito C.P. & Martin J.R. (2001): « Effects of nonplastic fines on the liquefaction resistance of sands», Journal of Geotechnical and Geoenvironmental Engineering, Vol., 127, N°5, pp. 408-415.

Prakash, S., Puri, V.K. (2010) « Recent advances in liquefaction of fine grained soils », Proceedings of fifth international conference on recent advances in geotechnical earthquake engineering and soil dynamics San Diego, USA.

Prakash S. & Sandoval J.A. (1992): « Liquefaction for low plasticity silts», Journal of Soil Dynamic and Earthquake Engineering, 71(7), pp.373-397.

Puri V.K. (1984): « Liquefaction behaviour and dynamic properties of loessial soils», PhD Dissertation, University of Missouri-Rolla.

Puri V.K. (1990) : « Liquefaction aspects of loessial soils », Proc., 4th U. S. Nat. Conf. on Earthquake Engineering Research Inst., El Cerito, California, 3, 755-762.

Rahman, M. M. and Lo, S. R. (2014) «Undrained Behavior of Sand-Fines Mixtures and Their State Parameter». Journal of Geotechnical and Geoenvironmental Engineering. 140(7): 0401-4036.

Sandoval S.J. (1989): « Liquefaction and settlement characteristics of silty soils», PhD dissertation, University of Missouri-Rolla.

Seed H.B., & Idriss I.M. (1971) «Simplified procedure for evaluating soil liquefaction potential», Journal of the Soils Mechanics and Foundation Division. ASCE, vol.97, SM9, pp. 1249-1274.

Seed, H.B. (1979) «Soil liquefaction and cyclic mobility evaluation for level ground during earthquakes», J. Geotech. Engrg.Div., ASCE, Vol. 105, No. GT2, February, pp. 201-255.

Seed, H.B., and Idriss, I.M. (1982). "Ground motions and soil liquefaction during earthquakes", Berkeley Earthquake Engineering Research Institute.

Seed, H.B., Seed, R.B., Harder, L. F., Jong, H.L. (1989). "Re-Evaluation of the Lower San Fernando Dam", Report 2. Examination of the Post-Earthquake Slide of February 9, 1971.

Seed H.B., Tokimatsu K., Harder L. & Chung R. (1985)« Influence of SPT procedures in soil liquefaction resistance », J. Geotech. Geoenviron. Eng. Div., ASCE, Vol. 111, N° 12, 1425-1445.

Seed, H.B., Lee, K.L. (1966). "Liquefaction of saturated sands during cyclic loading", J. Soil mechanics and Foundation division, ASCE, 92, SM9, 1249-1273.

Seed H.B., & Harder L.F. (1990)«SPT based analysis of cyclic pore pressure generation an undrained residual strength, Proceedings, Memorial Symposium of H.B. Seed», vol.2, pp. 351-376.

Seed, R.B., Cetin, K.O., Moss, R.E., Kammerer, A.M., Wu, J., Pestana, J.M., and Faris, A. (2003). "Recent advances in soil liquefaction engineering: a unified and consistent framework", In Proceedings of the 26th Annual ASCE Los Angeles Geotechnical Spring Seminar: Long Beach, CA.

Shen, C.K., Vrymoed, J.L., Uyeno, C.K. (1977). "The effects of fines on liquefaction of sands", Proc., 9th Int. Conf. on Soil Mechanics and Foundation Engineering, Tokyo, 381-385.

Sladen, J.A., D'Hollander, R.D., Krahn, J., Mitchell, D.E. (1985)«Back analysis of the Nerlerk berm liquefaction slides», Canadian Geotechnical Journal, 22(4), 579-588.

Tatsuoka F., Toki S., Okamoto M., Yasuda S., & Tanizawa F. (1986a): «Some factors affecting undrained triaxial strength of sand », Soils and foundations, 26, pp. 99-116. Thetics», Soil Dynamics and Earthquake Engineering, vol.16, pp.417-425.

Tatsuoka F., Toki S., Okamoto M., Yasuda S., & Tanizawa F. (1986b) «Some factors affecting undrained triaxial strength of sand », Soils and foundations, 26, pp. 99-116.

Thevanayagam 1998: «Effect of fins and confining stress on the undrained shear strength of silty sand». Journal of geotechnical and geoenvironmental engineering, 124(6), 479-491.

Tohno, I., Yasuda, S. (1981). "Liquefaction of the ground during the 1978 Miyagiken-Oki earthquake", Soils and Foundations 21(3): 18-34.

Troncoso, J. H., Verdugo, R. (1985). "Silt content and dynamic behavior of tailing sands", In Proc., XI Int. Conf. on Soil Mechanics and Foundation Engineering, pp. 1311-1314.

Tsuchida H. (1970). « Prediction and countermeasure against the liquefaction in sand deposits», Abstract of the Seminar in the Port and Harbord Recherche Institute (Japan).

- Thevanayagam, S., Martin, G. R. (2002).** "Liquefaction in silty soils-screening and remediation issues", *Soil Dynamics and Earthquake Engineering*, 22(9), 1035- 1042.
- Unnikrishnan, K. RajagopaleN.R. Krishnaswamy (2002)** «Behaviour and reinforced to cyclic and monotonic loading» *Geotextile and Geomembranes*, vol 20, N°02, p117-133.
- Vaid V.P. (1994):** « Liquefaction of silty soils», *Ground failures under seismic conditions*, Geotechnical Special Publication, N°44, ASCE, New York, 1-16.
- Vaid P.Y. &Sivathayalan S., (1995):** «Errors in estimates of void ration of laboratory sand specimens», *Canadian Geotechnical Journal*, vol. 33, pp.1017-1020.
- Vaid Y. P., Sivathayalan S., Stedman D. (1999)** «Influence of specimen reconstituting method on the undrained response of sand», *Geotechnical Testing Journal*, vol. 22, n° 3, pp.187-195.
- Verdugo, R. L, (1992)** « Characterization of sandy soil behavior under large deformation. PhD thesis»University of Tokyo.
- Vercueil D, Billet P. (1997).** Study of the liquefaction resistance of saturated sand reinforced with geosyn
- Wang, W. (1979).** Some findings in soil liquefaction. Report Water Conservancy and Hydro-Electric Power. Scientific Research Institute, Pekin, Chine, pp. 1-17.
- Wang, Y. and Wang, Y. (2010).** Study of Effects of Fines Content on Liquefaction Properties of Sand. *Soil Dynamics and Earthquake Engineering*, 272-277.
- Wang, Y. L., Li, Z. Y., Sun, R., Yuan, X. M. (2012).** Experimental Study of Liquefaction Resistant Characteristics of Remodeled Clayey Sands. *Advanced Materials Research*, 368, pp. 2887-2890.
- Ward, S.D., Brown, M.K.H., Brown, I.R., Larkin, T.J. (2010).** Geological engineering study of liquefaction after the 2010 Darfield earthquake in an area of complex fluvial geology. *Proceedings of the Ninth Pacific Conference on Earthquake Engineering Building an Earthquake- Resilient Society*, 14-16 April, Auckland, New Zealand.

Xenaki, V. C. and Athanasopoulos, G. A. (2003). Liquefaction Resistance of Sand-Silt Mixtures: An Experimental Investigation of the Effect of Fines. *Soil Dynamics and Earthquake Engineering*, 23(3), pp. 1-12.

Yamamuro J.A et Covert K.M. (2001). Monotonic and cyclic liquefaction of very loose sands with high silt content. *Journal of Geotechnical and Geoenvironmental Engineering*, 127(4), pp. 314-324.

Yamamuro, J. A., Lade, P.V. (2012). Static Liquefaction and Reverse Behavior of Silty Sand. In *GeoCongress 2012. State of the Art and Practice in Geotechnical Engineering*, pp. 829-838.

Yang, J., Savidis, S. et Roemer, M. (2004). Evaluating Liquefaction Strength of Partially Saturated San. *Journal of Geotechnical and Geoenvironmental Engineering*, 130(9), pp. 975- 979.

Youd, T.L., Garris, C.T. (1995). Liquefaction-induced ground-surface disruption. *Journal of Geotechnical Engineering*, 121(11), pp. 805-809.

Youd, T.L., Idriss, I.M., Andrus, R.D., Arango, I., Castro, G., Christian, J.T., et al. (2001). Liquefaction resistance of soils: summary report from the 1996 NCEER and 1998 NCEER/NSF workshops on evaluation of liquefaction resistance of soils. *Journal of Geotechnical and Geoenvironmental Engineering*, 127(10), pp. 817-833.

Zlatovic S. & Ishihara K. (1997). Normalised behaviour of very loose no plastic soil/Effects of fabric. *Soils and Foundations*, Tokyo, 37(4), pp. 47-56.