

## 6. REFERÈNCIES

- [1] FREDLUND, D.G., MORGENSTERN N.R. and WIDGER R.A. (1977) The shear strength of unsaturated soils. Canadian Geotechnical Journal. 15, n°3: 313-321.
- [2] FREDLUND, D.G. and RAHARDJO, H. (1993) Soil mechanics for unsaturated soils. John Wiley and Sons, INC., New York.
- [3] ALONSO E.E., GENS A., and HIGHT D.W. (1987) Special problems soils. General Reports. In proceedings of the 9<sup>th</sup> European Conference on Soil Mechanics and Foundation Engineering. Dublin. Vol.3: 1087-1146.
- [4] BARRERA, M. (2002) Estudio experimental hidro-mecánico de suelos colapsables. PhD thesis, Universitat Politècnica de Catalunya.
- [5] HILLEL, D. (1988) L'eau et le sol: Principes et processus physiques. Collection PEDASUP 5. 288 p.
- [6] LEONG, E.C., RAHARDJO, H. (1997) Permeability functions for unsaturated soils. Journal of Geotechnical and Geoenvironmental Engineering, Vol 123, No. 12, December, 1997.
- [7] Van GENUCHTEN, M. Th. (1980) A closed-form equation for predicting the hydraulic conductivity of unsaturated soils. Soils Sci. Am. J. 44: 892-898.
- [8] McKEE, C.R., and BUMB, A.C. (1984). The importance of unsaturated flow parameters in desining a monitoring system for hazardous wastes and environmental emergencies. Proc., Haz. Mat. Control Res. Inst. Nat. Conf., 50-58.
- [9] FREDLUND, D.G., XING, A. (1996) The relationship of the unsaturated shear strength to the soil-water characteristic retention curve. Canadian Geotechnical Journal. 33: 440-448.
- [10] ABDALLAH, A. (1999) Modélisation de l'infiltration dans les sòls fins compactés : Intégration des écoulements préférentiels dans les macropores. Thèse de Doctorat, INPL, Nancy, 160 p.
- [11] BROOKS, R.H. and Corey, A.T. (1964) Hydraulic properties of porous medium. Hydrology paper No. 3, Civ. Engrg. Dept., Colorado State Univ., Fort Collins, Colo.
- [12] GARDNER, W.R. (1956) Calculation of capillary conductivity from pressure plate outflow data. Soil Sci.soc.Am. Proc., 20: 317-320
- [13] ARBHABHIRAMA, A., KRIDAKORN, C. (1968) Steady downward flow to water table. Water Resour. Res., 4, 1249-1257.

- [14] TERZAGHI, K (1932) Theoretical Soil Mechanics, John Wiley and Sons. New York.
- [15] BISHOP A.W. (1959) The principle of effective stress. *Teknik Ukeblad*, 39: 859-863.
- [16] EDDINY S. (1993) Etude expérimentale des transferts hydriques et du comportement mécanique d'un limon non saturé. Thèse de Doctorat, INPL, ENSG, Laboratoire de géomécanique, Nancy, 177p
- [17] BISHOP, A.W., BLIGHT, G.E., (1963) Some aspects in effective stress in saturated and unsaturated soils. *Géotechnique* 13, No. 3:177-197.
- [18] MATYAS, E.L., RADHAKRISHNA, H.S. (1968) Volume changes characteristics in partially saturated soils. *Géotechnique*, 18 No. 4: 432-448.
- [19] LAMBE, T.W., WHITMAN R.V., (1959) The role of effective stress in the behaviour of expansive soils. *Quart. Of the Colo. Sch. Of Mines*, Vol 54 (4) : 33-66.
- [20] FREDLUND D.G., MORGENSEN N.R. and WIDGER R.A. (1977) – The shear strength of unsaturated soils. *Canadian Geotechnical Journal*. 15, n°3: 313-321.
- [21] GAN, J.K.M., FREDLUND, D.G., RAHARDJO, H. (1958) Determination of the shear strength of unsaturated soils. *Can. Geotech. J.*, 25 : 500-510.
- [22] CUI Y. et DELAGE P. (2000) Application au calcul des ouvrages. Techniques de l'ingénieur, C303.
- [23] ALONSO E.E., GENS, A., JOSA, A. (1990) A constitutive model for partially saturated soils . *Géotechnique* 40, No.3: 405-430.
- [24] ALONSO E. (1989) Analisis de la estabilidad de taludes. Casos simples. *Monografía Sociedad Española de Geomorfología* , vol. 3 pp. 97-118.
- [25] FAURE R.M. (2000) L'évolution des méthodes de calcul en stabilité de pentes. Partie I : Méthodes à la rupture. *Revue Française de Géotechnique*, n° 92, pp. 3-16.
- [26] FELLENIUS, W., (1927) Erdstatische Berechnungen mit Reibung und Kohäsion. Ernst, Berlin.
- [27] DUNCAN M. (1996) Limite equilibrium and finite-element analysis of slopes. *Journal of Geotechnical Engineering*, vol.122, n°7, pp. 577-593.
- [28] BRINKGREVE,R.B.J., BAKER, H.L. (1991) Non-linear finite element analysis of safety factors. *Computer Methods and Advances in Geomechanics*.Vol 20: 1117-1122.
- [29] ZIENKIEWIECZ, O.C., HUMPHESON, C., LEWIS,R.W. (1975) Associated and non-associated visco-plasticity and plasticity in soil mechanics. *Géotechnique* 25, No. 4, p. 671-689.

- [30] BARATA, F.E. (1969) Landslides in the Tropical Region of Rio de Janeiro. Proceedings of 7th International Conference on Soil Mechanics and Foundation Engineering, Mexico City, vol. 2, pp. 507-516.
- [31] FUKUOKA, M. (1980) Landslides Associated with Rainfall. Geotechnical Engineering, Journal of Southeast Asian Geotechnical Society, vol. 11, pp. 1-29.
- [32] LUMB, P.B. (1975) Slope failures in Hong Kong. Quart. J. Engg. Geol., 1975, 8, 31-65.
- [33] BRAND E.W. (1984) Landslides in south Asia: a state-of-art report. Proceedings of 4th International Symposium on Landslides, Toronto, vol. 1, pp. 17-59.
- [34] AU S.W.C. (1993) Rainfall and Slope Failure in Hong Kong. Engineering Geology, vol. 36, pp. 141-147.
- [35] KAY J.N. et CHEN Y. (1995) Rainfall Landslide Relationship for Hong-Kong. Proc. Institution of Civil Engineers, Geotechnical Engineering, vol. 113, n°2, pp.117-118.
- [36] LUMB, P.B. (1962) Effects of rainstorms on slope stability. Sym. On Hong Kong Soils., Hong Kong, 1962, pp. 73-87
- [37] MURRAY, T.Y., OLSEN, W.H. (1988) Slope failures and heavy rainfall. Geotechnical Engineering, Journal of Southeast Asian Geotechnical Society, vol. 19, pp. 76-86.
- [38] WEI, L., OLSEN, W.H. (1991) The Bukit Batok Landslide. Geotechnical Engineering, Journal of Southeast Asian Geotechnical Society, vol. 21, pp. 23-37.
- [39] NG C.W.W. & SHI Q. (1998) – A numerical investigation of the stability of unsaturated soils slopes subjected to transient seepage. Computers and Geotechnics, vol. 22, n°1, pp. 1-28.
- [40] ALONSO E., GARCIA J.V. & LLORET A. (1992) Efecto de la infiltracion de agua en la estabilidad de taludes de suelos parcialmente saturados. II Simp. Nac. Taludes y Laderas Instables, Innsbruck, pp. 1303-1308.
- [41] SHIMADA K., FUJII H., NISHIMURA S., MORII T. (1995) Stability analysis of unsaturated slopes considering changes of matric suction. Proceedings of Conference on Unsaturated Soils, Paris, Balkema, Rotterdam, vol. 1, pp. 2931-298.
- [42] CAI F., UGAI K., WAKAI A., LI Q. (1998) – Effect of horizontal drains on slope stability under rainfall by three-dimensional finite element analysis. Computers and Geotechnics 28, pp. 255-275.

- [43] ALONSO E., GENS A., LLORET A. & DELAHAYE C. (1995) Effect of rain infiltration on the stability of slopes. Proceedings of Conference on Unsaturated Soils, Paris, Balkema, Rotterdam, vol. 1, pp. 241-249.
- [44] CHO S.E., LEE S.R. (2001) Instability of unsaturated soil slopes due to infiltration. Computers and Geotechnics 28, pp. 185-208.
- [45] NAVARRO,V., VAUNAT, J. (1998) Rainfall-induced failure process in unsaturated slopes. 8<sup>th</sup> International IAEG Congress. 1998, Balkema, Rotterdam pp. 1517-1521.
- [46] KRAHN J., FREDLUND D.G., KLASSEN,M.J. Effect of soil suction on slope stability at Notch Hill. Canadian Geotechnical Journal, vol. 26, pp.269-278.
- [47] ALONSO E., LLORET A., ROMERO E. (1994) Efecto de las lluvias en terraplenes. Departamento de Ingenieria del Terreno. Universitat Poltècnica de Catalunya.
- [48] SUBRAMANIAM R. (2002) Numerical modelling of slope in unsaturated residual soils. Unsaturated soils, Juca, de Campos & Marinho.
- [49] RAHARDJO H., LI X.W., TOLL D.G. & LEONG E.C. (2001) – The effect of antecedent rainfall on slope stability. Geotechnical and Geological Engineering, vol. 19, pp. 371-399.
- [50] CAROL, I., RIZZI E. & WILLAM K. (2001) On the formulation of anisotropic elastic degradation. 1. Theory based on a pseudo-logarithmic damage tensor rate, Int. J. Solids Struct., 38: 491-518