References

Ali, F.H. and Osman, N., 2008. Shear strength of a soil containing vegetation roots. Soils and Foundations, 48(4), pp.587-596.

Bethlahmy, N., 1962. First year effects of timber removal on soil moisture. Hydrological Sciences Journal, 7(2), pp.34-38.

Bishop, A.W., 1955. The use of the slip circle in the stability analysis of slopes. Geotechnique, 5(1), pp.7-17.

Bishop, D.M. and Stevens, M.E., 1964. Landslides on logged areas in southeast Alaska. US Forest Service research paper NOR;-1.

Brinkgreve, R.B.J., Swolfs, W.M. and Engine, E., 2017. Plaxis users manual. Balkema, Rotterdam (The Neetherlands).

Cai, F., Ugai, K., Wakai, A. and Li, Q., 1998. Effects of horizontal drains on slope stability under rainfall by three-dimensional finite element analysis. Computers and Geotechnics, 23(4), pp.255-275.

Cebada, D.P., 2017. Assessment of the role of vegetation as part of ecosystem-based risk reduction measures used for shallow-landslides in Rasuwa district, Nepal. Unpublished master thesis, University of Twente, Enschede.

Chok, Y.H., 2008. Modelling the effects of soil variability and vegetation on the stability of natural slopes (Doctoral dissertation), School of Civi, Engineering and Minning Engineering, The University of Adelade.

Chok, Y.H., Jaksa, M.B., Kaggwa, W.S. and Griffiths, D.V., 2015. Assessing the influence of root reinforcement on slope stability by finite elements. International Journal of Geo-Engineering, 6(1), p.12.

Collins, B. D, and Znidarcic, D. 2004. Stability analyses of rainfall-induced landslides. Journal of Geotechnical and Geoenvironmental Engineering. ASCE. April 2004, Vol. 130, No. 4, 362–372

Collison, A.J.C. and Anderson, M.G., 1996. Using a combined slope hydrology/stability model to identify suitable conditions for landslide prevention by vegetation in the humid tropics. Earth surface processes and landforms, 21(8), pp.737-747.

Cook, D.I., Santi, P.M. and Higgins, J.D., 2008. 2007 AEG Student Professional Paper: Graduate Division: Horizontal Landslide Drain Design: State of the Art and Suggested Improvements. Environmental & Engineering Geoscience, 14(4), pp.241-250.

Coppin NJ, Richards IG. (1990) "Physical effects of vegetation". In Use of Vegetation in Civil Engineering, Coppin NJ, Richards IG (eds).

Coppin, N. J., Barker, D. L. & Richards, I. 1990. Use of vegetation in civil engineering. Butterworths, London.

Cornforth, D.H. and Cornforth, D., 2005. Landslides in practice: investigation, analysis, and remedial/preventative options in soils. J. Wiley.

Department of Navy, 1971. Design Manual, Soil Mechanics, Foundations, and Earth Structures, NAVFAC DM-7, Naval Facilities Engineering Command, Philadelphia.

Dharmasena UNKP, Bandara KN, Karunawardena WA, Kulathilaka SAS, 2015. Back analysis and the rectification of failed cut slope at Southern Expressway. In: Proceedings of the International Conference on Geotechnical Engineering, Colombo, Sri Lanka

Dias, A.S., Pirone, M. and Urciuoli, G., 2017, May. Review on the methods for evaluation of root reinforcement in shallow landslides. In Workshop on World Landslide Forum (pp. 641-648). Springer, Cham.

Donald, I.B. and Giam, P.S.K., 1989. Example problems for testing soil slope stability programs (No. 8/1989).

Donald, I.B. and Giam, S.K., 1988. Application of the nodal displacement method to slope stability analysis. In Fifth Australia-New Zealand conference on geomechanics: prediction versus performance; Preprints of papers (p. 456). Institution of Engineers, Australia.

Duncan, J. M. (1996). "State of the art: limit equilibrium and finite-element analysis of slopes." Journal of Geotechnical Engineering, 122(7), 577-596

Duncan, J.M., 1996. State of the art: limit equilibrium and finite-element analysis of slopes. Journal of Geotechnical engineering, 122(7), pp.577-596.

Elia, G., Cotecchia, F., Pedone, G., Vaunat, J., Vardon, P.J., Pereira, C., Springman, S.M., Rouainia, M., Van Esch, J., Koda, E. and Josifovski, J., 2017. Numerical modelling of slope–vegetation–atmosphere interaction: an overview. Quarterly Journal of Engineering Geology and Hydrogeology, 50(3), pp.249-270.

Endo, T. and Tsuruta, T. (1969) "The effect of the tree's roots upon the shear strength of soil". Annual Report, Hokkaido Branch, Forest Experiment Station USA, pp167-182.

Fellenius, W., 1936. Calculation of stability of earth dam. In Transactions. 2nd Congress Large Dams, Washington, DC, 1936 (Vol. 4, pp. 445-462).

Fredlund, D. G., and Rahardjo, H. (1993). Soil Mechanics for Unsaturated Soils, Wiley, New York.

Fredlund, D.G. and Krahn, J., 1977. Comparison of slope stability methods of analysis. Canadian geotechnical journal, 14(3), pp.429-439.

Geotechnical Investigation for the slope movements in the railway track at Ihalakotte,2016, National Building Research Organization

Ghestem, M., Veylon, G., Bernard, A., Vanel, Q. and Stokes, A., 2014. Influence of plant root system morphology and architectural traits on soil shear resistance. Plant and Soil, 377(1-2), pp.43-61.

Gjetvaj, V., Znidarčić, D., Szavits-Nossan, A. and Popović, N., 2009, January. Increase of slope stability with time by drilled drains. In 17th International Conference on Soil Mechanics and Geotechnical Engineering.

Gray DH, Oshashi H (1983) Mechanics of fiber reinforcement in sand. J Geotech Eng ASCE 109:335–353

Gray, D.H. & Sotir, R.B. 1996. Biotechnical and Soil Bioengineering Slope Stabilization A Practical Guide for Erosion Control. John Wiley & Sons.

Gray, D.H. & Sotir, R.B. 1996. Biotechnical and Soil Bioengi-neering Slope Stabilization A Practical Guide for Erosion Control. John Wiley & Sons.

Gray, D.H. and Leiser, A.T., 1982. Biotechnical slope protection and erosion control. Van Nostrand Reinhold Company Inc..

Gray, D.H., Barker, D., 2004. Root-soil mechanics and interactions. In: Bennett, J.J., Simon, A. (Eds.), Riparian Vegetation and Fluvial Geomorphology. Water Science and Applications vol. 8, pp. 113–123.

Greenwood, J.R., 2006. SLIP4EX–A program for routine slope stability analysis to include the effects of vegetation, reinforcement and hydrological changes. Geotechnical & Geological Engineering, 24(3), p.449.

Greenwood, J.R., Norris, J.E. and Wint, J., 2004. Assessing the contribution of vegetation to slope stability. Proceedings of the Institution of Civil Engineers-Geotechnical Engineering, 157(4), pp.199-207.

Griffiths, D.V. and Lane, P.A., 1999. Slope stability analysis by finite elements. Geotechnique, 49(3), pp.387-403.

Hidalgo, C.A., Vega, J.A. and Obando, M.P., 2018. Effect of the Rainfall Infiltration Processes on the Landslide Hazard Assessment of Unsaturated Soils in Tropical Mountainous Regions. Engineering and Mathematical Topics in Rainfall, pp.163-185.

Huang, Y. H., 1975. "Stability Charts for Earth Embankments," Transportation Research Record 548, Transportation Research Board, Washington, DC, pp. 1-12.

Huang, W., 2018. Stability of unsaturated soil slopes under rainfall and seismic loading (Doctoral dissertation).

Huang, Y.H., 1983. Stability analysis of earth slopes. Springer Science & Business Media.

Janbu, N., 1959. Stability analysis of slopes with dimensionless parameters. Harvard University, Division of Engineering and Applied Physics.

Janbu, N., 1973. Slope stability computations. Publication of: Wiley (John) and Sons, Incorporated.

JICA 2015, Proposal for Rectification on Landslide, Slope Failure and Rock Fall in Pilot Sites, Japanese International Corperation Agency

Jotisankasa, A. & Sirirattanachat, T. 2017. Effects of grass roots on soil-water retention curve and permeability function. Canadian Geotechnical Journal. 54(11): 1612-1622.

Jotisankasa, A., Coop, M. & Ridley, A. 2009. The mechanical behaviour of an unsaturated compacted silty clay. Geotechnique59(5): 415-428.

Jotisankasa, A., Kulsawan, B., Toll, D.G. and Rahardjo, H., 2008. Studies of rainfallinduced landslides in Thailand and Singapore. In Unsaturated Soils: Advances in Geo-Engineering-Proceedings of the 1st European Conference on Unsaturated Soils, E-UNSAT (Vol. 2008, pp. 901-907).

Jotisankasa, A., Mairaing, W. and Tansamrit, S., 2014. Infiltration and stability of soil slope with vetiver grass subjected to rainfall from numerical modeling. In Proceedings of the 6th International Conference on Unsaturated Soils, UNSAT (pp. 1241-1247).

Kankanamge, L., Jotisankasa, A., Hunsachainan, N. and Kulathilaka, A., 2018. Unsaturated Shear Strength of a Sri Lankan Residual Soil from a Landslide-Prone Slope and its Relationship with Soil–Water Retention Curve. International Journal of Geosynthetics and Ground Engineering, 4(3), p.20.

Kleppe, J. H. and Denby, G. M., "Design and Performance of Horizontal Drains" (1984). International Conference on Case Histories in Geotechnical Engineering. 8.

Knappett, J.A. and Craig, R.F., 2012. Basic characteristics of soils. Carig's Soil Mechanics, pp.3-38.

Kozlowski TT (1971) Growth and development of trees, vol 2. Academic Press, New York

Krahn, J., 2004. SLOPE/W: Complete Set of Manuals. Krahn, ed., Calgary, Alta., Canada.

Kulathilaka SAS, Kumara LM (2011) Effectiveness of surface drainage in enhancing the stability of cut slopes during the periods of heavy rain. J Inst Eng Sri Lanka, 127–137

Kulathilaka SAS, Sujeevan V (2011) Rain-triggered slope failures in unsaturated residual soils. J Sri Lankan Geotech Soc 6:20–26

Lau, K.C. and Kenney, T.C., 1984. Horizontal drains to stabilize clay slopes. Canadian Geotechnical Journal, 21(2), pp.241-249.

Lau, K.C. and Kenney, T.C., 1984. Horizontal drains to stabilize clay slopes. Canadian Geotechnical Journal, 21(2), pp.241-249.

Mahannopkul K, Jotisankasa A (2019) Influence of root suction on tensile strength of Chrysopogon zizanioides roots and its implication on bio-slope stabilization. Journal of Mountain Science 16(2). https://doi.org/10.1007/s11629-018-5134-8

GeoStudio manual. "Seepage modeling with SEEP/W." (2012)

Matthews, C., Farook, Z. & Helm, P.R. (2014). Slope stability analysis – limit equilibrium or the finite element method? Technical Paper. Ground Engineering. May. pp. 22-28.

Memon, M.Y., 2018. A Comparison Between Limit Equilibrium and Finite Element Methods for Slope Stability Analysis.

Morgan, R.P. and Rickson, R.J., 1995. Slope stabilization and erosion control: a bioengineering approach. Taylor & Francis.

Morgenstern, N.U. and Price, V.E., 1965. The analysis of the stability of general slip surfaces. Geotechnique, 15(1), pp.79-93.

Nakamura, H. (1988) "Landslide control works by horizontal Drainage works". Proc. 5th International Symposium on Landslides, Lousanne, Vol. 2.

Ni, J., Leung, A.K. and Ng, C.W., 2019. Unsaturated hydraulic properties of vegetated soil under single and mixed planting conditions. Géotechnique, 69(6), pp.554-559.

Nilaweera, N.S. and Nutalaya, P., 1999. Role of tree roots in slope stabilisation. Bulletin of engineering geology and the environment, 57(4), pp.337-342.

Nilaweera, N.S., 1994. Effects of tree roots on slope stability: the case of Khao Luang Mountain area, So Thailand. Dissert. No. Gt-93-2.

Nonveiller, E. (1981), Efficiency of Horizontal Drains on Slope Stability, Proceedings, International Conference on Soil Mechanchanics and Foundation Engineering, Stockholm, Vic 3, 495-500.

Pathmanathan, M.L., 2009. Numerical Simulation of the Performance of Horizontal Drains for Subsurface Slope Stabilization (Doctoral dissertation, Washington State University).

Rabie, M., 2014. Comparison study between traditional and finite element methods for slopes under heavy rainfall. HBRC Journal, 10(2), pp.160-168.

Rahardjo H, Leong EC, Rezaur RB (2002) Studies of rainfall-induced slope failures. Proceeding of the National Seminar Slope 2002, April 27, 2002, Bandung, Indonesia, pp 15–29

Rahardjo, H., A. Satyanaga & E.C. Leong. 2012. Unsaturated Soil Mechanics for Slope Stabilization. Geotechnical Engi-neering Journal of the SEAGS & AGSSEA 43(1)

Rahardjo, H., Hritzuk, K.J., Leong, E.C. and Rezaur, R.B., 2003. Effectiveness of horizontal drains for slope stability. Engineering Geology, 69(3-4), pp.295-308.

Rahardjo, H., Li, X.W., Toll, D.G., Leong, E.C., 2001. The effect of antecedent rainfall on slope stability. Geotechnical and Geoenvironmental Engineering 19, 371–399.

Rahardjo, H., Nio, A. S., Leong, E. C., and Song, N. Y. (2010). "Effects of groundwater table position and soil properties on stability of slope during rainfall." Journal of Geotechnical and Geoenvironmental Engineering, 136(11), 1555-1564.

Rahardjo, H., Santoso, V.A., Leong, E.C., Ng, Y.S. and Hua, C.J., 2011. Performance of horizontal drains in residual soil slopes. Soils and foundations, 51(3), pp.437-447.

Rahardjo, H., Satyanaga, A. and Leong, E.C., 2012. Unsaturated soil mechanics for slope stabilization. Southeast Asian Geotechnical Journal, 43(1), pp.48-58.

Riestenberg, M.M. (1987) Anchoring of thin colluvium on hillslopes by roots of sugar maple and white ash. PhD Dissertation, University of Cincinnati, Cincinnati, OH.

Santi, P.M., Crenshaw, B.A. and Elifrits, C.D., 2003. Demonstration projects using wick drains to stabilize landslides. Environmental & Engineering Geoscience, 9(4), pp.339-350.

Santoso, V.A., Rahardjo, H., Leong, E.C., Ng, Y.S. and Tam, C.P.H., 2011. Horizontal drains in residual soil slopes.

Schwarz M, Preti F, Giadrossich F, Lehmann P, Or D (2009) Quantifying the role of vegetation in slope stability: a case study in Tuscany (Italy). Ecol Eng (in press). doi:10.1016/j.ecoleng.2009.06.014

Sidle RC (1992) A theoretical model of the effects of timber harvesting on slope stability. Water Resour Res 28:1897–1910

Sidle RC, Pearce AJ, O'Loughlin CL (1985) Hillslope stability and land use. Am Geophysical Union, Water Resour Monogr 11. Washington, DC, p 140

Spencer, E., 1967. A method of analysis of the stability of embankments assuming parallel inter-slice forces. Geotechnique, 17(1), pp.11-26.

Stokes A, Ball J, Fitter AH, Brain P, Coutts MP (1996) An experimental investigation into the resistance of model root systems to uprooting. Ann Bot 78:415–421

Sujeevan V, Kulathilaka SAS (2011) Rainfall infiltration analysis in unsaturated residual soil slopes. J Sri Lankan Geotech Soc 6:9–19

Taylor, D.W., 1937. Stability of earth slopes. J. Boston Soc. Civil Engineers, 24(3), pp.197-247.

Tsukamoto Y, Kusakabe O (1984) Vegetation influences on debris slide occurrence on steep slopes in Japan. Proc Symp Effects of forest land use on erosion and slope stability, Environment & Policy Institute, Honolulu, Hawaii

Veylon G, Ghestem M, Stokes A, Bernard A (2015) Quantification of mechanical and hydric components of soil reinforcement by plant roots. Can Geotech J 52:1839–1849

Wu TH (1976) Investigation of landslides on Prince of Wales island. Geotechnical Engineering Report 5, Civil Engineering Department, Ohio State University, Columbus, Ohio

Wu W, Sidle RC (1995) A distributed slope stability model for steep forested basins. Water Resour Res 31(8):2097–2110

Wu, T. H., Mckinnel, W. P. & Swanston, D. N. 1979. Strength of tree roots and landslides on Prince of Wales Island, Alaska. Canadian Geotechnical Journal. 16(1): 19-33.

Wu, T.H., McOmber, R.M., Erb, R.T. and Beal, P.E., 1988. Study of soil-root interaction. Journal of Geotechnical Engineering, 114(12), pp.1351-1375.

Yildiz, A., Graf, F., Rickli, C. and Springman, S.M., 2018. Determination of the shearing behaviour of root-permeated soils with a large-scale direct shear apparatus. Catena, 166, pp.98-113., Yildz, Springman,, 2018

Yu, K., Pypker, T.G., Keim, R.F., Chen, N., Yang, Y., Guo, S., Li, W. and Wang, G., 2012. Canopy rainfall storage capacity as affected by sub-alpine grassland degradation in the Qinghai–Tibetan Plateau, China. Hydrological Processes, 26(20), pp.3114-3123.

Zapata, Claudia Elena. "Uncertainty in soil-water-characteristic curve and impacts on unsaturated shear strength predictions." (1999),PhD Dissertation, Arizona State University, Tempe, USA 5661-5661.

Zhan, T. L., Ng, C. W., and Fredlund, D. G. (2007). "Field study of rainfall infiltration into a grassed unsaturated expansive soil slope." Canadian Geotechnical Journal, 44(4), 392-408.

ZHOU, W.ANDMAERZ, N. H., 2002, Identifying the optimumdrilling direction for characterization of discontinuous rock:Environmental Engineering Geoscience, Vol. 8, No. 4, pp. 295–307

Ziemer RR (1981) The role of vegetation in the stability of forested slopes. Proceedings of the International Union of Forestry Research Organizations, XVII World Congress. Kyoto, Japan. Vol. I, pp 297–308