

## REFERENCES

- Acar, Y.B. and Alshawabkeh, A.N. (1992). Electrokinetic remediation I: Pilot-scale test with lead-spiked kaolinite. *Journal of Geotechnical Engineering (ASCE)* **122**, No. 3, pp. 173-185.
- Ahmad K. B., Taha M. R., Kassim K. A., (2011), Electrokinetic treatment on a tropical residual soil, *Proceeding of the Institution of Civil Engineering*, p. 3-13.
- Alshawabkeh, A.N., (2001), *Basics and application of electrokinetic remediation*. Handouts prepared for a short course, in Handouts Prepared for a Short Course. 2001, Federal University of Rio de Janeiro: Rio de Janeiro. pp. 95.
- Ambramson et.al, (2002), *Slope Stability and Stabilization Methods (2<sup>nd</sup> ed.)*, New York, USA: John Wiley and Sons, ISBN 0-471-38493-3.
- Angaji et.al, (2013), Study of Physical, Chemical and Morphological Alterations of Smectite Clay upon Activation and Functionalization via the Acid Treatment, *World Journal of Nano Science and Engineering*, 2013, 3, 161-168.
- Asadi A., Huat B. B. K., Hassim M. M., Mohamed T.A., Hanafi M.M., Nader S., (2009), Electroosmotic Phenomena in Organic Soils, *American Journal of Environmental Sciences* 5 (3), p. 310-314.
- Azzam, R. and Oey, W. (2001), *The utilization of electrokinetics in geotechnical and Environmental engineering*. Transport in Porous Media 42, pp. 295-314.
- Barker, J.E, Rogers, C.D.F., Boardman, D.I and Peterson (2004), "Electro-kinetic Stabilization: an overview and case study". *Ground Improvement*, vol.8, 47-58.
- Bemmelen, V., 1949. *Geology of Indonesia*. Mining engineer, Chief of the Bureau of Mines of Indonesia.
- Black, J.L., and Wektman, A. (2010), *Electrokinetic strengthening and repair of slopes*. Technical Note in Ground Engineering, April 2010.
- Cepeda, J., Smebye, H., Vangelsten, B., Nadim, F., & Muslim, D. (2010). *The global assessment report on disaster reduction*. landslide in Indonesia.
- Craig, R.F, (2005), *Craig's Soil Mechanics*. Seventh Edition.

- Das M., (2010), *Principles of Geotechnical Engineering*. Seventh Edition.
- Delgade, et al., (2007), Measurement and interpretation of electrokinetic phenomena, *Journal of colloid and Interface Science* 309, 194-224
- Eltayeb M., (2009), *Soil improvement using electrokinetic and vacuum techniques*, VDM Verlag Dr. Mueller Aktiengesellschaft and Co. KG, 142p.
- Fauzian, G., (2016), *Karakteristik Geologi Teknik dan Zona Kemampuan Geologi Teknik untuk Permukiman Desa Purwoharjo dan Gerbosari, Kecamatan Samigaluh, Kabupaten Kulon Progo, Daerah Istimewa Yogyakarta*, Undergraduate thesis, Universitas Gadjah Mada.
- Fellenius, W., (1936), Calculation of the Stability of Earth Dams, Trans. *2nd Cong. on Large Dams*, Vol 4, p 445.
- Geeta et.al, (2014), A Study on Stabilization of Soil by Electro Kinetic Method, *IJRET: International Journal of Research in Engineering and Technology*, Volume: 03 Special Issue: 06.
- Harbottle, M.J. (2003) *The use of electrokinetics to enhance the degradation of organic contaminant in soils*. PhD thesis, University of Oxford, UK. Harton.
- Jajudin S. A. a., (2012), *Electrokinetic stabilization of soft clay*, School of Civil engineering, college of Engineering and Physical Science, The University of Birmingham, 295p.
- Johnson, D.L., J.E.J. Domier, and D.N. Johnson. 2005. Reflections on the nature of soil and its biomantle. *Annals, Association of American Geographers*, v.95 (1), pp. 11-31.
- Justin P. M. and Robert L. P., (2004), *Performance of soil stabilization agents*, K-TRAN: KU-01-8, Depatment of Teansportation, and The University of Kansas
- Isbell and Raymond, 2002, *The Australian Soil Classification*, Revised Edition. Australian Soil and Land Survey Handbooks Series 4, CSIRO Publishing,
- Iyer, R. (2001). *Electrokinetic Remediation*. Particulate Science and Technology, 19, 219-228.
- Karnawati, D., (1998). Natural Slope Failure on Weathered Andesitic Breccia in Samigaluh Area, Indonesia, Proceedings: *Fourth International Conference on Case Histories in Geotechnical Engineering*, St. Louis, Missouri, March 9-12, 1998.

- Karnawati, D., (2005), *Natural Disaster Movement of Land Movement in Indonesia and its Counter-Terrorism*, Yogyakarta: Department of Geology Engineering Faculty of Engineering, Gadjah Mada University.
- Malekzadeh M., Lovisa J., Sivakugan N., (2016), *An Overview of Electrokinetic Consolidation of Soils*, Geotechnical and Geological Engineering, Springer International Publishing Switzerland 2016.
- Mitchell, J.K. (1993) *Fundamentals of Soil Behavior*, John Wiley & Sons, New York.
- Mitchell, J.K & Soga, K. (2005) *Fundamentals of Soil Behavior*. 3rd Edition, John Wiley & Sons, New York.
- Mosavat N., (2014). *Electro-kinetic Treatment of Fine-grained Soils with Chemical Enhancement Solutions*, Dissertation submitted to Griffith University to obtain the Degree of Doctor in Griffith School of Engineering.
- Nasim M., Erwin O., Gary C., (2012), Review of Electrokinetic Treatment Technique for Improving the Engineering Characteristics of Low Permeable Problematic Soils, *Int. J. of Geomate*, Vol. 2, No. 2 (SI. No. 4), p 266-272.
- Nugrahaeni, 2017, *Mapping the vulnerability of mass movements in Nglinggo tea garden village, Samigaluh sub-district, Kulon Progo regency, Yogyakarta*. Undergraduate thesis, Universitas Gadjah Mada.
- Oakes D. T. and Burcik E. J., (1951), *Electro-kinetic phenomena in colloidal clays*, The Pennsylvania State University, Clays and Clay Minerals, vol. 4. Issue 1, p. 225-239.
- Oliveira et.al, (2007), *Coexistence of halloysite and kaolinite – a study on the genesis of kaolin clays of Campo Alegre Basin, Santa Catarina State, Brazil*, Annals of the Brazilian Academy of Sciences, 9(4): 665-681.
- Palmino et.al, (2008), *mixtures of fine-grained minerals - Kaolinite and carbonate grains*, *Clays and Clay Minerals*, Vol. 56, No. 6, 599–611, 2008.
- Rahardjo, W., Sukandarrumidi and Rosidi, H.M.D., (1995). *Geological Map of Yogyakarta Sheet*, Java. Geological Research and Development Centre.
- Rogers, C. D. F., Liaki, C. and Boardman, D. I. (2003) Advances in the engineering of lime stabilised clay soils. *Proceedings of the International Conference on Problematic Soils, Nottingham*.
- Reuss, F. F. (1809). *On a new effect of galvanic electricity*. Memoirs of the Imperial Society of Naturalists of Moscow. 2: 327-337.

- Rustamaji, R.M., (2007). *Ground Improvement using Electro-Chemical Injection*, Ph.D Thesis.
- Rustamaji R. M., (2007), *Ground Improvement using Electro-chemical Injection*, Mitt. Ing.-u. Hydrogeology, 112p.
- Schaefer et.al, (2005), Calcium Alginate Barrier Films Modified by Montmorillonite Clay, *Journal of Macromolecular Science Part B* . November 2005
- Senneset, K. and Acar, Y.B. (1995). A glimpse at electro-kinetic soil improvement. *Proceeding of Bengt. B. Broms Symposium on Geotechnical Engineering*, Singapore, 13-15 December 1995, pp. 362-382.
- Thakur L. S, Shah T. K., Shah D. L., Vasavada. D. A, (2011), Strengthening silty soil using electro-kinetic grouting, *Proceeding of Indian Geotechnical Conference*, December 15-17, Kochi, Paper No.H-211, p. 441-444.
- Thuy et.al, (2013), Improvement of Expansive Soil by Electro-Kinetic Method, *J.SE Asian Appl. Geol.*, Jan-Apr 2013, Vol. 5(1), pp. 50-59.
- Tikhomolova K. P. and Ellis H., (1993), *Electro-osmosis*, Department of chemistry University of St. Petersburg, Russia, New York K.P.
- UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART (USCS)*, (2014), Virginia, USA.
- Van Olphen, H. (1963) *An Introduction to Clay Colloid Chemistry*. Interscience Publishers, New York
- Wentworth, C. K. (1922). A Scale of Grade and Class Terms for Clastic Sediments. *The Journal of Geology*. 30 (5): 377–392.
- Yeung, A.T., (1994), *Electro-kinetic flow processes in porous media and their applications*, *Advances in Porous Media*, M.Y. Corapcioglu, Editor, Elsevier, Amsterdam, the Netherlands, Vol. 2, p. 309-395