genetic algorithm in the settlement prediction of a thick soft clay deposit in the southern part of the Korean peninsula," *Eng. Geol.*, vol. 196, pp. 150–157, 2015, doi: 10.1016/j.enggeo.2015.07.012.

[23] F. Rezanezhad, J. S. Price, W. L. Quinton, B. Lennartz, T. Milojevic, and P. Van Cappellen, "Structure of peat soils and implications for water storage, flow and solute transport: A review update for geochemists," *Chem. Geol.*, vol. 429, no. March, pp. 75–84, 2016, doi: 10.1016/j.chemgeo.2016.03.010.

[24] W. H. Zhou, T. M. H. Lok, L. S. Zhao, G. xiong Mei, and X. B. Li, "Analytical solutions to the axisymmetric consolidation of a multi-layer soil system under surcharge combined with vacuum preloading," *Geotext. Geomembranes*, vol. 45, no. 5, pp. 487–498, 2017, doi: 10.1016/j.geotexmem.2017.06.003.

[25] P. J. V. Oliveira, S. L. Santos, A. A. S. Correia, and L. J. L. Lemos, "Numerical prediction of the creep behavior of an embankment built on soft soils subjected to preloading," *Comput. Geotech.*, vol. 114, no. June, p. 103140, 2019, doi: 10.1016/j.compgeo.2019.103140.

[26] W. Q. Feng, J. H. Yin, W. B. Chen, D. Y. Tan, and P. C. Wu, "A new simplified method for calculating consolidation settlement of multi-layer soft soils with creep under multi-stage ramp loading," *Eng. Geol.*, vol. 264, p. 105322, 2020, doi: 10.1016/j.enggeo.2019.105322.

[27] Y. Tian, W. Wu, G. Jiang, M. Hesham El Naggar, G. Mei, and P. Ni, "Analytical solutions for vacuum preloading consolidation with prefabricated vertical drain based on elliptical cylinder model," *Comput. Geotech.*, vol. 116, no. June, p. 103202, 2019, doi: 10.1016/j.compgeo.2019.103202.

[28] J. chun Chai, H. tao Fu, J. Wang, and S. L. Shen, "Behaviour of a PVD unit cell under vacuum pressure and a new method for consolidation analysis," *Comput. Geotech.*, vol. 120, no. November 2019, p. 103415, 2020, doi: 10.1016/j.compgeo.2019.103415.

[29] J. A. Knappett and R. F. Craig, *Craig's Soil Mechanics, Eighth Edition*. Spon Press, 2012.

[30] J. Chai and N. Miura, "Investigation of Factors Affecting Vertical Drain Behavior," *J. Geotech. Geoenvironmental Eng.*, vol. 125, no. 3, pp. 216–226, 1999.

[31] C. Rujikiatkamjorn, M. D. W. Ardana, B. Indraratna, and S. Leroueil, "Conceptual model describing smear zone caused by mandrel action," *Geotechnique*, vol. 63, no. 16, pp. 1377–1388, 2013, doi: 10.1680/geot.12. P.138.

[32] J. C. Deng, J. P. Carter, and M. D. Liu, "Methods of vacuum consolidation and their deformation analyses," *Proc. Inst. Civ. Eng. Gr. Improv.*, vol. 167, no. 1, pp. 35–46, 2014, doi: 10.1680/grim.13.00017.