BIBLIOGRAPHY

- Abusharar, S.W., Zheng, J.J., Chen, B.G. and Yin, J.H., 2009. A simplified method for analysis of a piled embankment reinforced with geosynthetics. *Geotextiles and Geomembranes*, *27*(1), pp.39-52.
- Abu-Farsakh, M.Y., Rupnow, T. and Zhang, Z., 2020. Instrumentation and Modeling of Geosynthetic Load Transfer Platform Performance [Research Project Capsule].
- Al-Ani, W., Wanatowski, D. and Chan, S.H., 2014. Numerical analysis of piled embankments on soft soils. In *Ground Improvement and Geosynthetics* (pp. 30-39).
- Alexiew, D., 2023. Basal reinforcement on piles and on voids according to EBGEO. In *Geosynthetics: Leading the Way to a Resilient Planet* (pp. 2096-2103). CRC Press.
- Alsirawan, R., Koch, E. and Alnmr, A., 2023. Proposed method for the design of geosynthetic-reinforced pile-supported (grps) embankments. *Sustainability*, *15*(7), p.6196.
- Amulya, R. and Kommu, S., 2022. Evaluation of Equal Settlements of Geosynthetic Reinforced Piled Embankment. *Management*, *9*(3), pp.29-34p.
- Ariyarathne, P. and Liyanapathirana, D.S., 2015. Review of existing design methods for geosynthetic-reinforced pile-supported embankments. *Soils and Foundations*, *55*(1), pp.17-34.
- Bi, Z., Gong, Q. and Huang, J., 2020. Long-term stability of high-speed railway geosynthetic reinforced pile-supported embankment subjected to traffic loading considering arching effect. *Transportation Research Record*, *2674*(7), pp.596-607.
- Blanc, M., Thorel, L., Girout, R., Almeida, M.S.S. and Fagundes, D.F., 2018. Load transfer mechanism of piled embankments: centrifuge tests versus analytical models. In *Physical Modelling in Geotechnics, Volume 2* (pp. 1043-1048). CRC Press.
- Briançon, L. and Simon, B., 2012. Performance of pile-supported embankment over soft soil: full-scale experiment. *Journal of Geotechnical and Geoenvironmental Engineering*, *138*(4), pp.551-561.
- Britton, E. and Naughton, P., 2008, September. An experimental investigation of arching in piled embankments. In *Proceedings of the 4th European Geosynthetics Congress EuroGeo* (Vol. 4, p. 106).
- Chen, B.G., Zheng, J.J., Abusharar, S.W. and Chen, J., 2009. Theoretical and Numerical Analysis on Geosynthetic-Reinforced and Pile Wall-Supported Embankment. In *Geosynthetics in Civil and Environmental Engineering: Geosynthetics Asia 2008 Proceedings of the 4th Asian Regional Conference on Geosynthetics in Shanghai, China* (pp. 709-717). Springer Berlin Heidelberg.

- Collin, J.G., Han, J. and Huang, J., 2005, December. Geosynthetic reinforced column support embankment design guidelines. In *Proceedings, the North America Geosynthetics Society Conference* (pp. 1-15).
- Demerdash, M.A., 1996. *An experimental study of piled embankments incorporating geosynthetic basal reinforcement* (Doctoral dissertation, Newcastle University).
- Dias, D. and Grippon, J., 2017. Numerical modelling of a pile-supported embankment using variable inertia piles. *Structural Engineering and Mechanics*, *61*(2), pp.245-253.
- Drusa, M., Kais, L., Vlček, J. and Mečár, M., 2015. Piled embankment design comparison. *Civil and Environmental Engineering*, *11*(1), pp.76-82.
- Duijnen, P.V., Eekelen, S.V. and Stoel, A.E.C., 2010. Monitoring of a railway piled embankment. In *9th International Conference on Geosynthetics, Brazil* (pp. 1461-1464).
- Eskişar, T., 2015. Visualization of soil arching in flexible piled embankments. *Sadhana*, *40*(7), pp.2263-2270.
- Fagundes, D.F., Almeida, M.S., Thorel, L. and Blanc, M., 2017. Load transfer mechanism and deformation of reinforced piled embankments. *Geotextiles and Geomembranes*, *45*(2), pp.1-10.
- Fonseca, E.C., Palmeira, E.M. and Barrantes, M.V., 2018. Load and deformation mechanisms in geosynthetic-reinforced piled embankments. *International Journal of Geosynthetics and Ground Engineering*, *4*, pp.1-12.
- Gangatharan, R., 2014. Comparison between piled embankment and load transfer platform-rigid inclusion for soft soil. *University of Technology Sydney*.
- Ghosh, B., Fatahi, B. and Khabbaz, H., 2016. Mechanical model to analyse multilayer geosynthetic reinforced granular layer in column supported embankments. *Procedia engineering*, *143*, pp.387-394.
- Han, J., Collin, J.G. and Huang, J., 2004, September. Recent development of geosynthetic-reinforced column-supported embankments. In *Proceedings of the 55th highway geology symposium, Kansas City, Missouri, September* (pp. 7-10).
- Han, J. and Wayne, M.H., 2000. Pile-soil-geosynthetic interactions in geosynthetic reinforced platform/piled embankments over soft soil. In *Presentation at 79th annual transportation research board meeting, Washington, DC*.
- Huang, Z., 2019. *Lateral spreading mechanics of column-supported embankments* (Doctoral dissertation, Virginia Tech).
- Kaluđer, J., Mulabdić, M. and Minažek, K., 2015. Load transfer platforms-comparison of design methods. *Electronic journal of the Faculty of Civil Engineering Osijek-e-GFOS*, *6*(10), pp.30-40.
- King, D.J., Bouazza, A., Gniel, J.R., Rowe, R.K. and Bui, H.H., 2017. Load-transfer platform behaviour in embankments supported on semi-rigid columns:

implications of the ground reaction curve. *Canadian Geotechnical Journal*, *54*(8), pp.1158-1175.

- King, L., Bouazza, A., Dubsky, S., Rowe, R.K., Gniel, J. and Bui, H.H., 2019. Kinematics of soil arching in piled embankments. *Géotechnique*, *69*(11), pp.941-958.
- Liu, H.L., Ng, C.W. and Fei, K., 2007. Performance of a geogrid-reinforced and pile-supported highway embankment over soft clay: Case study. *Journal of Geotechnical and Geoenvironmental Engineering*, *133*(12), pp.1483-1493.
- Lodder, H.J., Van Eekelen, S.J.M. and Bezuijen, A., 2012. The influence of subsoil reaction in a basal reinforced piled embankment. *proceedings of Eurogeo5, Valencia*, *5*.
- Lodder, H.J., Van Eekelen, S.J.M. and Bezuijen, A., 2012. The influence of subsoil reaction in a basal reinforced piled embankment. *proceedings of Eurogeo5, Valencia*, *5*.
- Luo, Q., Wei, M., Lu, Q. and Wang, T., 2021. Simplified analytical solution for stress concentration ratio of piled embankments incorporating pile–soil interaction. *Railway Engineering Science*, *29*(2), pp.199-210.
- McGuire, M.P., 2011. *Critical height and surface deformation of column-supported embankments* (Doctoral dissertation, Virginia Tech).
- Mithila, H.D.S. and Priyankara, N.H., 2022. Review of Existing Design Methods of Geosynthetic Reinforced Piled Embankments (GRPE). *ENGINEER*, *55*(02), pp.11-20.
- Nguyen Tuan Phuong, N.A.T., 2020. Study on the Behavior of Geosynthetic-Reinforced Pile-Supported Embankments in Soft Ground Improvement Solutions. *Journal of Southwest Jiaotong University*, *55*(5).
- Pham, T.A. and Dias, D., 2021. 3D numerical study of the performance of geosynthetic-reinforced and pile-supported embankments. *Soils and Foundations*, *61*(5), pp.1319-1342.
- Phutthananon, C., Jongpradist, P., Dias, D. and Jamsawang, P., 2021. Numerical study of the deformation performance and failure mechanisms of TDM pile-supported embankments. *Transportation Geotechnics*, *30*, p.100623.
- Prelovsky, B., Naughton, P.J., Scotto, M. and Kempton, G.T., 2008. Development Of Piled Embankments Techniques Over 25 Years. *Proceedings of Zakladanie Brno*.
- Satibi, S., Van der Meij, R. and Leoni, M., 2007. Piled embankments: literature review and required further research using numerical analysis. *Institute for Geotechnical Engineering, Institute for Geotechnical Engineering, University of Stuttgart*.
- Schaefer, V.R., Mitchell, J.K., Berg, R.R., Filz, G.M. and Douglas, S.C., 2012. Ground improvement in the 21st century: a comprehensive web-based information

system. In *Geotechnical Engineering State of the Art and Practice: Keynote Lectures from GeoCongress 2012* (pp. 272-293).

- Van Eekelen, S.J., 2015. Basal reinforced piled embankments. In *Workshop 1: Geosynthetics in Transportation Geotechnics* (p. 17).
- Van Eekelen, S.J., 2016. The 2016-update of the dutch design guideline for basal reinforced piled embankments. *Procedia engineering*, *143*, pp.582-589.
- Van Eekelen, S.J.M., Almeida, M.S.S. and Bezuijen, A., 2014. European analytical calculations compared with a full-scale Brazilian piled embankment. In *10th International conference on geosynthetics (IGS-2014)*. DGGT.
- Van Eekelen, S.J.M., Bezuijen, A. and Van Tol, A.F., 2015. Validation of analytical models for the design of basal reinforced piled embankments. *Geotextiles and Geomembranes*, *43*(1), pp.56-81.
- Wang, K., Cao, J., Wang, X. and Ning, Y., 2021. Soil Arching of Piled Embankment in Equal Settlement Pattern: A Discrete Element Analysis. *Symmetry*, *13*(9), p.1627.
- Yun-Min, C., Wei-Ping, C. and Ren-Peng, C., 2008. An experimental investigation of soil arching within basal reinforced and unreinforced piled embankments. *Geotextiles and geomembranes*, *26*(2), pp.164-174.