

REFERENCES

- Abu-Hejleh, N., Zornberg, J.G., Wang, T., Watcharamonthein, J., 2002. *Monitored displacements of unique geosynthetic-reinforced soil bridge abutments*. Geosynthetics International 9 (1), 71–95.
- Abu-Hejleh, N., Zornberg, J.G., Elias, V., Watcharamonthein, J., 2003. *Design assessment of the founders/meadows GRS abutment structure*. Transportation Research Board 82nd Annual Meeting Compendium of Papers CD-ROM, Washington, DC.
- Abu-Hejleh, N. M., Zornberg, J. G., Elias, V., and Watcharamonthein, J. 2013. Proceedings of the 82nd Annual Meeting of the Transportation Research Board, Washington D.C., January (CD-ROM). *Design Assessment of The Founders/ Meadows GRS Abutment Structure*.
- Badan Pusat Statistik Kabupaten Muaraenim. 2024. Source Url: <https://muaraenimkab.bps.go.id/indicator/151/140/1/jumlah-curah-hujan.html>
- Basudhar, P. K., Ghosh, P., Dey, A., Valsa, S., and Nainegali, L. S. 2010. *Reinforced Earth Design of Embankment and Cuts in Railways*. Research Design and Standards Organization (RDS), Lucknow, Indian Institute of Technology Kanpur.
- Esen, A. Woodward, P. Laghrouche, O.; Čebašek, T.M.; Brennan, A.; Robinson, S.; Connolly, D. 2021. *Full-scale laboratory testing of a geosynthetically reinforced soil railway structure*. Transp. Geotech. 2021, 28, 100526.
- Esen, A. F. Woodward, P. K. Laghrouche, O. and Connolly, D. P. 2023. *Long-Term Performance Assessment of a Geosynthetic-Reinforced Railway Substructure*. Sustainability 2023, 15,9364.
- Fuggini, C., Zangani, D. Wosniok, A., Krebber, K., Franitza, P. Gabino, L. and Weigand, F. 2016. Transportation Research Procedia. *Innovative Approach in the Use of Geotextiles for Failures Prevention in Railway Embankments*. Volume 14 , 2016, Pages 1875-1883. [accessed : 14 August 2024]. available from: <https://www.sciencedirect.com/science/article/pii/S2352146516301557>
- Hardiyatmo, H.C. 2006. *Penanganan Tanah Longsor dan Erosi*. Gajah Mada University Press. Yogyakarta.
- Hardiyatmo, H.C. (2010). *Mekanika Tanah 2*. Gajah Mada University Press.

- Yogyakarta. Horii, K., Kishida, H., Tateyama, M. and Tatsuoka, F., 1994, "Computerized Design Method for Geosynthetic-Reinforced Soil Retaining Walls for Railway Embankments", *Recent Case Histories of Permanent Geosynthetic-Reinforced Soil Retaining Walls*, Tatsuoka, F. and Leshchinsky, D., Editors, Balkema, 1994, Proceedings of Seiken Symposium No. 11, Tokyo, Japan, November 1992, pp. 205-218.
- Kumar, S. and Roy, L.B. 2021. *Rainfall Induced Geotextile Reinforced Model Slope Embankment Subjected to Surcharge Loading: A Review Study*. Archives of Computational Methods in Engineering (2022) 29:3203–3221
<https://doi.org/10.1007/s11831-021-09688>
- Lestari, M. I. Manoppo, F. J., And Rondonuwu. 2018. Analisis Kestabilan Tanah Timbunan (Embankment) Pada Tanah Rawa Dengan Menggunakan Bambu (Studi Kasus : Jalan Toll Manado-Bitung). Jurnal Ilmiah Media Engineering Vol.8 No.2, Mei 2018 (1078-1091) ISSN: 2087-9334.
file:///C:/Users/USER/Downloads/fabian_jm,+6.JIME0802006-Mariati+Indah+Lestari.docx.pdf
- Lesov, K. Kenjaliyev, M. Mavlanov, A. and Tadjibaev. 2021. *Stability of the embankment of fine sand reinforced with geosynthetic materials*. E3S Web of Conferences 264, 02011 (2021). [accessed : 14 August 2024]. available from: https://www.e3s-conferences.org/articles/e3sconf/abs/2021/40/e3sconf_conmechhydro2021_02011/e3sconf_conmechhydro2021_02011.html
- Luettich, S.M., J.P. Giroud, and Bachus, R. C. 1992. Geotextiles and Geomembranes. *Geotextile filter design guide*. Volume 11, Issues 4–6, 1992, Pages 355-370 [accessed : 14 August 2024]. available from: <https://www.sciencedirect.com/science/article/pii/0266114492900197>
- Muller, W. W., dna Saathoff, F. 2015. Science and Technology of Advanced Materials. *Geosynthetics in geoenvironmental engineering*. Science and Technology of Advanced Materials, Volume 16, Number 3. [accessed : 14 August 2024]. available from: <https://iopscience.iop.org/article/10.1088/1468-6996/16/3/034605/meta>
- Portelinha, F.H.M., Santos, M.C. and Futai, M.M. 2021. Geotextiles and Geomembranes. *A laboratory evaluation of reinforcement loads induced by rainfall infiltration in*

geosynthetic mechanically stabilized earth walls. Geotextiles and Geomembranes
49 (2021) 1427–1439

Portelinha, F.H.M., Zornberg, J.G., 2017. Geotextiles and Geomembranes. *Effect of infiltration on the performance of an unsaturated geotextile-reinforced soil wall*. [accessed : 14 August 2024]. available from: <https://www.sciencedirect.com/science/article/abs/pii/S0266114417300146?via%3Dihub>

Roshan, M. J., Rashid, A. S. A., Wahab, N. A., Tamassoi, S., Jusoh, S.N., Hezmi, M. A. Daud, N. N. N., Apandi, N. M., and Azmi, M. 2022. Transportation Geotechnics. *Improved methods to prevent railway embankment failure and subgrade degradation: A review*. Volume 37, November 2022, 100834. [accessed : 14 August 2024]. available from: <https://www.sciencedirect.com/science/article/pii/S2214391222001180>

Standar Nasional Indonesia (SNI) 8460. 2017. *Persyaratan Perancangan Geoteknik*. SNI 8460:2017.

Setiawan, A. Kamaruddin, S. A. Nazir, R. Alatas, I. M. and Basarah, Y. I. 2024. *The Performance of a Double Track Railroad Embankment Using Deep Soil Mixing*. Civil Engineering and Architecture 12(1): 168-177, 2024.

Siavoshnia, M., Kalantari, F., and Shakiba, A. 2010. *Assessment of Geotextile Reinforced Embankment on Soft Clay Soil*. The 1 st International Applied Geological Congress, Department of Geology, Islamic Azad University - Mashad Branch, Iran, 26-28 April 2010. [accessed : 14 August 2024]. available from: <chrome-extension://efaidnbmninnnigcpagllcgcfndmkaj/https://khuif.ac.ir/DorsaPax/userfiles/file/pazhohesh/zamin%20mashad/315.pdf>

Shukla, S. K. 2015. *Core Concepts of Geotechnical Engineering*. School of Engineering, Edith Cowan University.

Shukla, S. K. 2017. *Fundamentals of Fibre-Reinforced Soil Engineering*. School of Engineering, Edith Cowan University.

Syahminan, M. Sumi, T. Oeda, Y. and Ramli, M.I. 2011. *Prospect of Railway System Development to Support Coal Transportation in Sumatra Island – Indonesia*. In Proceedings of the 13th International Summer Symposium of Japan Society on Civil Engineering.

- Tamura, Y., Nakamura, K., Tatsuoka, F., Tateyama, M., Murata, O. and Nakaya, T. 1994. Full-Scale Lateral Loading Tests on Column Foundations in Geosynthetic-Reinforced Soil Retaining Walls”, *Recent Case Histories of Permanent Geosynthetic-Reinforced Soil Retaining Walls*, Tatsuoka, F. and Leshchinsky, D., Editors, Balkema, 1994, Proceedings of Seiken Symposium No. 11, Tokyo, Japan, November 1992, pp. 277-285
- Tateyama, M., Murata, O., Tatsuoka, F., Tamura, Y., Nakamura, K. and Nakaya, T., 1994, Lateral Loading Tests on Columns on the Facing of Geosynthetic-Reinforced Soil Retaining Walls, *Recent Case Histories of Permanent Geosynthetic-Reinforced Soil Retaining Walls*, Tatsuoka, F. and Leshchinsky, D., Editors, Balkema, 1994, Proceedings of Seiken Symposium No. 11, Tokyo, Japan, November 1992, pp. 287-294.
- Tatsuoka, F., Tateyama, M. and Murata, O. 1989b. “*Earth Retaining Wall With a Short Geotextile and a Rigid Facing*”, Proceedings of the Twelfth International Conference on Soil Mechanics and Foundation Engineering, Balkema, 1992, Vol. 2, Rio de Janeiro, Brazil, August 1989, pp. 1311-1314.
- Tatsuoka, F., Murata, O. and Tateyama, M., 1992, “Permanent Geosynthetic-Reinforced Soil Retaining Walls Used for Railway Embankment in Japan”, *Geosynthetic-Reinforced Soil Retaining Walls*, Wu, J.T.H., Editor, Balkema, 1992, Proceedings of the International Symposium on Geosynthetic-Reinforced Soil Retaining Walls, Denver, Colorado, USA, August 1991, pp. 101-130.
- Tatsuoka, F. and Leshchinsky, D., Editors. 1994. *Recent Case Histories of Permanent Geosynthetic-Reinforced Soil Retaining Walls*. Balkema, 1994, Proceedings of Seiken Symposium No. 11. Tokyo. Japan. November 1992. 349 p.
- Tatsuoka, F., Tateyama, M., Uchimura, T. and Koseki, J. 1997. Geosynthetics International. *Geosynthetics-Reinforced Soil Retaining Walls As Important Permanent Structures*. 4. No 2.
- Theisen, M. S. 1992. *Geotextiles and Geomembranes. The role of geosynthetics in erosion and sediment control: An overview*. Volume 11, Issues 4–6, 1992, Pages 535-550. [accessed : 14 August 2024]. available from: <https://www.sciencedirect.com/science/article/pii/0266114492900315>.

- Tolooiyan, A., Abustan, I., Selamat, M.R. and Ghaffari, Sh. 2009. *Geotextiles and Geomembranes. A Comprehensive Method for Analyzing the Effect Of Geotextile Layers On Embankment Stability*.
- Ulhaq, E. D., Yelvi, and Wiyono, E. 2024. Presiding Online. *Analisa Dinding Penahan Tanah dengan perkuatan Geotekstil*. e-ISSN: 2715-5668
- Wardana, I. G.N., Putra, T. G. S., dan Kapitan, I. M. R. K. 2015. Desain Penulangan Tanah dengan Tulangan Lembaran Berupa Geosintetik untuk Perkuatan Tanah. Fakultas Teknik Universitas Udayana, Denpasar.
- Wachi, T. Yagi, S. Hagiwara, T. Kawaguchi, H. Kennedy, T. L. 2009. *Development of Regional Railway System in the Central Java Region*. Proceedings of the Eastern Asia Society for Transportation Studies, Vol.7, 2009.
- Wibowo, N. A. 2016. *Pengaruh Kondisi Ekstrem Terhadap Stabilitas Internal dan Eksternal Dinding Penahan Tanah Menggunakan Program Plaxis 8.2 (Studi Kasus Pada Jalan Nasional III Yogyakarta-Wonosari Km 17, sta 00+060)*. UII. <https://dspace.uui.ac.id/handle/123456789/1629>
- Wu, J.T.H. 2001. *Revising the AASHTO Guidelines for Design and Construction of GRS Walls*. Colorado Department of Transportation, Report No. CDOT-DTD-R-2001-16. 148 pp.
- Yang, K.-H., Thuo, J. N., Huynh, V. D. A. H., Nguyen, T. S. and Potelinha, F. H. M. 2018. Computers and Geotechnics. *Numerical evaluation of reinforced slopes with various backfill reinforcement-drainage systems subject to rainfall infiltration*. Computers and Geotechnics 96 (2018) 25–39.
- Yang, K. H., Thuo, J. N., Chen, J-W., and Liu, C.-N. 2019. *Geosynthetic International. Failure investigation of a geosynthetic-reinforced soil slope subjected to rainfall*. 26, No. 1.
- Yee, T. w. 2016. *Geotextile Applications in Ground Improvement Works*. 19th Southeast Asian Geotechnical Conference & 2nd AGSSEA Conference (19SEAGC & 2AGSSEA). [accessed : 14 August 2024]. available from: https://www.academia.edu/25735479/Geotextile_Applications_in_Ground_Improvement_Works
- Yonezawa, T., Yamazaki, T., Tateyama M, Tatsuoka, F. 2014. *Design and construction of geosynthetic-reinforced soil structures for the Hokkaido high-speed train line*. Transp Geotech 2014:3–20.



Yoo, C., Jung, H.-Y., 2006. *Case history of geosynthetic reinforced segmental retaining wall failure*. J. [accessed : 14 August 2024]. available from: https://www.academia.edu/9913666/Case_History_of_Geosynthetic_Reinforced_Segmental_Retaining_Wall_Failure

Yoo, C. And Jang, D.W.2013. *Geosynthetic Reinforced Soil Wall Performance under Heavy Rainfall*. Proceedings of the 18th International Conference on Soil Mechanics and Geotechnical Engineering, Paris 2013