

## DAFTAR PUSTAKA

- Alabi, A. O., dkk., 2019. Public and environmental health effects of plastic wastes disposal. Nigeria. University Of Technology Akure.
- Abdurrohman., dkk., 2020. Pemanfaatan limbah PET sebagai bahan pembuatan benang monofilament: pengaruh kecepatan penggulungan terhadap sifat fisik dan mekanik benang. *Jurnal Sains Materi Indonesia*. Vol 21, No 3.
- Bowles, J. E., 1997. *Foundation analysis and design*. Peoria, Illinois: The McGraw–Hill Companies, Inc.
- Dash, S. K., dkk., 2001. Bearing capacity of strip footings supported on geocell-reinforced sand. *Geotextiles and Geomembranes*, 19, 235–256.
- Dash, S., 2010. Influence of relative density of soil on performance of geocell-reinforced sand foundations. *Journal of Material in Civil Engineering*. ASCE 533–538.
- Dhane, G., dkk. 2015. Geocell an emerging technique of soil reinforcement in civil engineering field. India. NIT Jalandhar.
- Diansyah, A. A., Faris, F., Rifa’I, A., & Meidudga, R. E., 2021. Numerical modelling geocell reinforced slope by use of plastic bottle waste. ICST. Yogyakarta. Indonesia. Gadjah Mada University.
- Emersleben, A., & Meyer, N., 2008. Bearing capacity improvement of gravel base layers in road constructions using geocell. IACMAG. India.
- Fitri, D. A., 2016. Studi eksperimen pengaruh kedalaman geomembran di bawah lapisan tanah pasir. Yogyakarta. Indonesia. Universitas Gadjah Mada.
- Fathona, W., dkk., 2018. Pemanfaatan limbah plastik PET (Polyethylene Terephthalate) sebagai bahan stabilisasi tanah lempung ekspansif. *Jurnal Fondasi*, Vol 7, No 2.
- Holtz, R., 2009. *Geosynthetics for soil reinforcement*. Structures and Infrastructures, 1–19. USA. University Washington Seattle.
- Hardiyatmo, H. C., 2013. *Geosintetik untuk rekayasa jalan raya*, Edisi 2. Yogyakarta. Indonesia. Gadjah Mada University Press.
- Hardiyatmo, H. C., 2015. *Perancangan perkerasan jalan & penyelidikan tanah*. Yogyakarta. Indonesia. Gadjah Mada University Press.
- Hegde, A., & Sitharam, T. G. 2015. 3–Dimensional numerical modelling of geocell reinforced sand beds. *Geotextiles and Geomembranes*, 43(2), 171–181.
- Humayoon, H., & Gopinath, B. 2016. A study on the improvement of CBR using waste plastic mat as geocell. *International Journal of Engineering Research & Technology*. Vol 5. Kerala. India. St. Thomas Institute for science and Technology.
- Hardiyatmo. H. C., 2017. *Mekanika tanah 1*, Edisi 7. Yogyakarta. Indonesia. Gadjah Mada University Press.
- Hardiyatmo, H. C., 2018. *Mekanika tanah 2*, Edisi 6. Yogyakarta. Indonesia. Gadjah Mada University Press.

- Hardiyatmo, H. C., 2020a. Analisis dan perencanaan fondasi I, Edisi 4. Yogyakarta. Indonesia. Gadjah Mada University Press.
- Hardiyatmo, H. C., 2020b. Perbaikan tanah. Yogyakarta. Indonesia. Gadjah Mada University Press.
- Krishna, M. A., & Biswas. A., 2017. Geocell reinforced foundations. India. Indian Institute of Technology Tirupati.
- Kamalia., & Handayani, N., 2020. Utilization Plastic Waste Type PET (PolyEthylene Terephthalate) in the Making of Low-Quality Concrete in the City of Palangkaraya. Palangkaraya. Indonesia. Palangkaraya University of Muhammadiyah.
- Look, B. G., 2007. Handbook of geotechnical investigation and design tables. London, UK: Taylor & Francis Group.
- Mehdipour, I., dkk., 2013. Numerical study on stability analysis of geocell reinforced slopes by considering the bending effect. *Geotextiles and Geomembranes*, 32, 23–34.
- Muqoddam, F. A., 2018. Pemanfaatan limbah PET pada campuran AC-BC sebagai inovasi eco-material. Surabaya. Institut Teknologi Sepuluh November.
- Meidudga, R. E., Faris, F., Hardiyatmo, H. C., & Diansyah, A. A., 2021. Utilization of plastic waste polyethylene (PET) for reinforced subgrade. ICST. Yogyakarta. Indonesia. Gadjah Mada University.
- Purnamasari, E., & Suryarman, F., 2010. Pengaruh penggunaan limbah botol plastik sebagai bahan tambah terhadap karakteristik lapis aspal beton (Laston). Yogyakarta. Universitas Atma Jaya.
- Purwaningrum, P. 2016. Upaya mengurangi sampah plastik di lingkungan. Jakarta. Universitas Trisakti.
- Puro, P. K. H., 2019. Pemanfaatan limbah plastik jenis PET dan LDPE sebagai bahan tambahan pembuatan paving block. Semarang. Universitas Negeri Semarang.
- Raharjo, M. T. B., 2012. Analisis struktur jalan raya dengan menggunakan software *Plaxis 3-d* foundation ditinjau pada perkerasan lentur dan kaku. Surakarta. Universitas Sebelas Maret.
- Shukla, S. K., & Yin, J. H., 2006. Fundamentals of geosynthetic engineering. London, UK: Thaylor & Francis Grup.
- Sofiana, Y., 2010. Pemanfaatan limbah plastik sebagai alternatif bahan pelapis (Upholstery) pada produk interior. Jakarta. Universitas Bina Nusantara.
- Sukirman, S., 2010. Perencanaan tebal perkerasan lentur. Bandung. Indonesia. Nova.
- Safitri, T., 2015. Studi eksperimen daya dukung tanah pasir pada telapak beban menggunakan perkuatan geogrid. Yogyakarta. Universitas Gadjah Mada.
- Sulyaman, M. dkk., 2016. Utilization of recycled Polyethylene Terephthalate (PET) in engineering material: A review. *International Journal of Environmental Science and Development*, Vol 7, No. 2.
- Thakur, J. K., dkk., 2012. Performance of geocell-reinforced recycled asphalt pavement (RAP) bases over weak subgrade under cyclic loading. *Geotextiles and Geomembranes*, 35, 14-24.



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Thakare, S. W., & Sonule, S. K., 2013. Performance of plastic bottle reinforced soil. International Journal of Engineering Innovation & Research. Vol 2. Maharashtra. India.