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DAFTAR PUSTAKA

Abdrabbo, F., & Gaaver, K. (2012). *Challenges and uncertainties relating to open caissons. DFI Journal: The Journal of the Deep Foundations Institute, 6*(1), 21–32. https://doi.org/10.1179/dfi.2012.002

Allenby, D., Waley, G., & Kilburn, D. (2009). *Examples of open caisson sinking in Scotland. Proceedings of the Institution of Civil Engineers - Geotechnical Engineering, 162*(1), 59–70. https://doi.org/10.1680/geng.2009.162.1.59

American Public Health Association, American Water Works Association, & Water Environment Federation. (2017). *Standard methods for the examination of water and wastewater* (23rd ed.). *American Public Health Association*.

Asrifah, D. (2015). Pengolah air *backwash* tangki filtrasi menggunakan proses koagulasi flokulasi dan sedimentasi (Studi kasus unit pengelolaan air bersih RSUP Dr. Sarjito). *Jurnal Sains & Teknologi Lingkungan, 7*(1), 41–50. https://doi.org/10.20885/jstl.vol7.iss1.art4

Benefield, L. D., Judkins, J. F., Jr., & Weand, B. L. (1982). *Process chemistry for water and wastewater treatment. Prentice-Hall.* https://lccn.loc.gov/81008690

Callahan, M. T., Quackenbush, D. G., & Rowings, J. E. (1992). *Construction project scheduling*. McGraw-Hill. http://worldcat.org/isbn/0070097011

Cashman, P. M., & Preene, M. (2012). *Groundwater lowering in construction: A practical guide* (2nd ed.). CRC Press. https://doi.org/10.4324/9780203476321

Coduto, D. P., Yeung, M. R., & Kitch, W. A. (2011). *Foundation design: Principles and practices* (2nd ed.). Pearson. https://lccn.loc.gov/93022441

Construction Industry Institute. (1986). *Constructability: A primer* (Publication 3-1). *University of Texas at Austin*.

Construction Industry Institute. (1987). *Constructability concepts file*. *University of Texas at Austin.*

Das, B. M. (2011). *Principles of foundation engineering* (7th ed.). *Cengage Learning.*

UNIVERSITAS
GADJAH MADA
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Hazen, A. (1904). *On sedimentation. Transactions of the American Society of Civil Engineers*, 53(2), 45–88.

Heizer, J., Render, B., & Munson, C. (2017). *Operations management: Sustainability and supply chain management* (12th ed.). *Pearson*.

Kawamura, S. (2000). *Integrated design and operation of water treatment facilities* (2nd ed.). John Wiley & Sons.

Kerzner, H. (2017). *Project management: A systems approach to planning, scheduling, and controlling* (12th ed.). *Wiley*.

Kinasih, S., & Sutikno, S. (2024). PELAKSANAAN PEKERJAAN *DEWATERING* PADA KONSTRUKSI *BASEMENT* PROYEK *OFFICE* X. Prosiding Seminar Nasional Teknik Sipil, 5(1), 63–68. *Retrieved from* https://prosiding.pnj.ac.id/index.php/snts/article/view/2137

Mehta, J., Pitroda, J., & Bhavsar, J. J. (2015). *Open caisson: Underwater construction technique and placement. In International Conference on Engineering: Issues, Opportunities and Challenges for Development* (pp. 1–8).

Metcalf & Eddy, Inc., AECOM. (2014). *Wastewater engineering: Treatment and resource recovery* (5th ed.). *McGraw-Hill Education*.

Mohsenijam, A., Mahdavian, A., & Shojaei, A. (2020). *Constructability concepts, significance and implementation. Civil Engineering Journal, 6*(10), 1968–1979. https://doi.org/10.1061/9780784482889.050

Mota, B., & Mpofu, K. (2014). *Comparison of weighted decision matrix and analytical hierarchy process for CAD design of reconfigurable assembly fixture*. *Procedia* CIRP, 17, 250–255. https://doi.org/10.1016/j.procir.2014.10.088

Mulligan, C. N., Yong, R. N., & Gibbs, B. F. (2001). *Remediation technologies for metal-contaminated soils and groundwater: An evaluation. Engineering Geology*, 60(1–4), 193–207.

Neville, A. M. (2011). *Properties of concrete* (5th ed.). *Pearson Education Limited*.

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Nuranto, S., Maryono, A., Sembada, P. T. S., Jayatri, F. N. M., & Tapiory, J. G. (2025). *Technology for separation of iron in groundwater to support drinking water supply*. *International Journal of Hydrology Science and Technology*, 20(6), 1-13. https://doi.org/10.1504/IJHST.2025.150539

Nuranto, S., Putri, I. N., Ustriyati, S. N., Jayatri, F. N. M., & Sembada, P. T. S. (2024, March). *Potential Environmental Impacts Caused by Sedimentation at the Tambakboyo Retention Basin DI Yogyakarta to Fulfill the Needs For Watershed. In IOP Conference Series: Earth and Environmental Science* (Vol. 1311, No. 1, p. 012001). IOP Publishing. https://iopscience.iop.org/article/10.1088/1755-1315/1311/1/012001/meta

Nuranto, S., Setyawati, Y., Maryono, A., Lestari, P., Widyaningrum, M. P. R. P., Setyaji, T., & Ramadhani, M. M. (2026). *Groundwater vulnerability and drinking water sustainability under compound hydroclimatic extremes: a spatial analysis of the Magelang volcanic catchment, Indonesia. Water Supply*, ws2026165. https://doi.org/10.2166/ws.2026.165

Nuranto, S., Ustriyati, S. N., Putri, I. N., Sembada, P. T. S., & Wijayanti, E. (2023). *Sedimentation Analysis in the Tambakboyo Retention Basin Using the USLE Method and Eco Sounder Measurements to Support the Optimization of Water Availability*. In E3S *Web of Conferences* (Vol. 468, p. 08008). EDP *Sciences*. https://doi.org/10.1051/e3sconf/202346808008

O'Brien, J. J., & Plotnick, F. L. (2010). CPM *in construction management* (7th ed.). McGraw-Hill.

O'Connor, J. T., & Tucker, R. L. (1986). *Constructability: A primer. Construction Industry Institute, The University of Texas at Austin.*

Osfaldo, O., Budihardjo, M. A., & Suripin, S. (2023). Perbandingan metode pembuatan *shaft* untuk pekerjaan *jacking pipe* dengan metode *caisson shaft sinking* dan *sheet pile shaft*: Studi kasus proyek pembangunan jaringan IPAL Palembang Paket B2A. Jurnal Profesi Insinyur Indonesia, 1(7), 265–273. https://doi.org/10.14710/jpii.2023.23851

Pemerintah Republik Indonesia. (2021). Peraturan Pemerintah Republik Indonesia Nomor 22 Tahun 2021 tentang Penyelenggaraan Perlindungan dan Pengelolaan Lingkungan Hidup.

Powers, J. P., Corwin, A. B., Schmall, P. C., & Kaeck, W. H. (2007). *Construction dewatering and groundwater control.* John Wiley & Sons.

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Project Management Institute. (2021). *A guide to the project management body of knowledge* (PMBOK® Guide) (7th ed.). *Project Management Institute*.

Reynolds, T. D., & Richards, P. A. (1996). *Unit operations and processes in environmental engineering. PWS Publishing.* https://lccn.loc.gov/95038371

Saaty, T. L. (2008). *Decision making with the analytic hierarchy process*. *International Journal of Services Sciences, 1*(1), 83–98. https://doi.org/10.1504/IJSSCI.2008.017590

Salim, M. A., Syafrudin, S., & Susanty, A. (2022). Analisis perbandingan metode kerja *dewatering* pada proyek pembangunan jembatan pipa Pertamina di Semarang. *Jurnal Profesi Insinyur Indonesia, 1*(5), 1–12. https://doi.org/10.14710/jpii.2022.17263

Sawyer, C. N., McCarty, P. L., & Parkin, G. F. (2003*). Chemistry for environmental engineering and science* (5th ed.). McGraw-Hill.

Siswanto, I. P., Yanwirasti, Y., & Usman, E. (2015). Hubungan pengetahuan dan dukungan keluarga dengan kepatuhan minum obat anti tuberkulosis di puskesmas andalas kota padang. Jurnal Kesehatan Andalas, 4(3). https://doi.org/10.25077/jka.v4i3.354

Spellman, F. R. (2013). *Handbook of water and wastewater treatment plant operations*. CRC Press.

Tchobanoglous, G., Stensel, H. D., Tsuchihashi, R., & Burton, F. (2014). *Wastewater engineering: Treatment and resource recovery* (5th ed.). McGraw-Hill.

Tomlinson, M., & Woodward, J. (2014). *Pile design and construction practice* (6th ed.). CRC Press.

Triantaphyllou, E. (2000). *Multi-Criteria Decision Making Methods. In: Multi-criteria Decision Making Methods: A Comparative Study. Applied Optimization*, vol 44. Springer, Boston, MA. https://doi.org/10.1007/978-1-4757-3157-6_2

Wang, J., Abbasi, N. S., Pan, W., Wu, W., Alidekyi, S. N., Zhang, X., Ahmed, B., et al. (2025). *A comprehensive review of open caisson modeling technology:*

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Current practices and future prospects. *Applied Sciences, 15*(11), 6029. https://doi.org/10.3390/app15116029

Wei, H., Gao, B., Ren, J., Li, A., & Yang, H. (2018). *Coagulation or flocculation in dewatering of sludge: A review. Water Research, 143*, 608–631. https://doi.org/10.1016/j.watres.2018.07.029

Ye, Z., Kang, S., Wang, Z., Jiang, Q., Zhang, J., Zheng, B., & Wang, J. (2023). *Three-dimensional numerical analysis and operational optimization of high-efficiency sedimentation tank. Water, 15*(3), 1–19. https://doi.org/10.3390/w15203656

Zhu, X., Meng, X., & Zhang, M. (2021). *Application of multiple criteria decision making methods in construction: a systematic literature review. Journal of Civil Engineering and Management, 27*(6), 372-403. https://doi.org/10.3846/jcem.2021.15260