

DAFTAR PUSTAKA

- Akib, S., Mohd, S.M.A., bin Abd Wahid, S.M. & Hainin, M.R., 2018. Effect of channel slope on flow characteristics and discharge coefficient of rectangular weir. *International Journal of GEOMATE*, 15(47), pp.116–122. <https://doi.org/10.21660/2018.47.6675>
- Al-Naely, H., Al-Khafaji, Z. and Khassaf, S., 2018. Effect of opening holes on the hydraulic performance for Crump weir. *International Journal of Engineering (IJE)*, 31(12), pp.2022–2027.
- Arwa, A. and Ahmed, S., 2023. Theoretical derivation of discharge equations for critical flow over hydraulic structures. *Journal of Hydraulic Science and Engineering*, 11(2), pp.85–94. <https://doi.org/10.4236/jhse.2023.112007>
- Bagiawan, A., Sri, M.Y. and Desi, W., 2011. Pengujian data hidrologi dalam rangka peningkatan efektifitas dan efisiensi pengelolaan sumber daya air. *Jurnal Sumber Daya Air*, 7(1), pp.1–17.
- Bai, C., Bai, Z., Zhu, D. and Shi, C., 2023. Effect of vegetation on discharge over broad-crested weir. *Water Resources Management*, 37, pp.5939–5954. <https://doi.org/10.1007/s11269-023-03636-4>
- Carollo, F.G., Ferro, V. and Termini, D., 2002. Flow velocity measurements in vegetated channels. *Journal of Hydraulic Engineering*, 128(7), pp.664–673. [https://doi.org/10.1061/\(ASCE\)0733-9429\(2002\)128:7\(664\)](https://doi.org/10.1061/(ASCE)0733-9429(2002)128:7(664))
- Chanson, H., 2004. *Hydraulics of Open Channel Flow: An Introduction*. 2nd ed. Oxford: Elsevier Butterworth-Heinemann.
- Chowdhury, M.S., Abdullah, M.S.A., Mohammed, A.F. and Nasra, S.S.A.S., 2024. Potential of coastal armour units as energy dissipators to enhance the characteristics of hydraulic jumps. *Emirati Journal of Civil Engineering and Applications*, 2(2), pp.39–50.
- Daud, F., Nurnawaty, A.R.G. and Rani, A.A., 2018. Uji model pengaruh bentuk pelimpah terhadap karakteristik pengaliran. *Jurnal Teknik Hidro*, 11(1), pp.23–30.
- Fathi-Moghadam, M. and Khatami, S., 2011. Dimensional analysis and stage-discharge relationships for vegetated weirs. *Journal of Hydraulic Research*, 49(4), pp.530–540. <https://doi.org/10.1080/00221686.2011.578925>
- Ferro, V. and Baiamonte, G., 1997. Flow resistance of a vegetated channel. *Journal of Hydraulic Engineering*, 123(12), pp.1049–1052. [https://doi.org/10.1061/\(ASCE\)0733-9429\(1997\)123:12\(1049\)](https://doi.org/10.1061/(ASCE)0733-9429(1997)123:12(1049))
- Gharbi, R., Chawathe, A., Nassir, M. and Hewett, T.A., 2001. Effect of systematic and random flow measurement errors on history matching: a case study on oil and wet gas reservoirs. *Journal of Petroleum Science and Engineering*, 29(1–2), pp.21–36. [https://doi.org/10.1016/S0920-4105\(00\)00082-4](https://doi.org/10.1016/S0920-4105(00)00082-4)
- Giles, R.V., 1977. *Theory and Problems of Fluid Mechanics and Hydraulics*. 2nd ed. New York: McGraw-Hill.
- International Organization for Standardization (ISO), 2013. *ISO 4359:2013 – Flow measurement structures Rectangular, trapezoidal and U-shaped flumes*. Geneva: ISO.

- Intifadah, D.N., Widiarti, W.Y. and Saifurridzal, 2023. Evaluasi dan monitoring bangunan ukur debit pada saluran primer Kesilir Kecamatan Wuluhan. *Rekayasa Sipil*, 17(2), pp.179–185.
- Jan, C.D., Chang, C.J. and Lee, M.H., 2006. Discussion of design and calibration of compound sharp-crested weir by J. Martinez *et al.* *Journal of Hydraulic Engineering*, 132(8), pp.868–871.
- Jiang, M., Bai, L. and Zhang, Z., 2020. Influence of upstream and downstream slope angles on discharge coefficient of broad-crested weir. *Applied Water Science*, 10(5), Article 119. <https://doi.org/10.1007/s13201-020-01218-1>
- Johnson, M.R. and Nguyen, L.T., 2016. Techniques for measuring flow velocity in open channels: A comparative study of float and current meter methods. *Journal of Hydraulic Engineering*, 142(6), p.04016018. [https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0001145](https://doi.org/10.1061/(ASCE)HY.1943-7900.0001145)
- Khatua, K.K., Patra, K.C. and Nayak, P., 2011. Computation of discharge in rectangular compound open channel flow using a new approach. *Flow Measurement and Instrumentation*, 22(1), pp.10–18. <https://doi.org/10.1016/j.flowmeasinst.2010.10.001>
- Mays, L.W., 2005. *Water resources engineering*. 2nd ed. Hoboken: John Wiley & Sons.
- Muchtar, A. and Abdullah, N., 2022. Analisis faktor-faktor yang mempengaruhi debit Sungai Mamasa. *Jurnal Hutan dan Masyarakat*, 2(1), pp.174–187.
- Obaida, A.A.M. and Mohammed, A.Y., 2024. The effect of Crump weir's geometry changes on hydraulic flow characteristics: A review. *European Journal of Science and Technology*, 53, pp.168–175.
- Piratheepan, M., Winston, N. and Pathirana, K.P.P., 2006. Discharge measurements in open channels using compound sharp-crested weirs. *Journal of the Institution of Engineers*, 40(3), pp.31–38. <https://doi.org/10.4038/engineer.v40i3.7144>
- Pu, J.H. *et al.*, 2019. Submerged flexible vegetation impact on open channel flow velocity distribution: An analytical modelling study on drag and friction. *Water Science and Engineering*, 12(2), pp.121–128. <https://doi.org/10.1016/j.wse.2019.06.003>
- Puteri, M.F.D., Yoga, S.P. and Riza, A., 2019. Penentuan debit aliran di Muara Sungai Pawan Kabupaten Ketapang berdasarkan parameter kecepatan arus dan kedalaman sungai. *Jurnal Prisma Fisika*, 7(3), pp.326–330.
- Putra, A.H., Sari, D. and Nugroho, M.F., 2023. Design criteria and performance evaluation of Crump weirs for accurate flow measurement. *Journal of Water Resources Engineering*, 11(3), pp.145–154.
- Qian, Y., Shao, X., Zhou, J. & Wang, G., 2021. Effects of vegetation-induced hydraulic roughness on flow structure and discharge capacity in open channels. *Journal of Hydro-Environment Research*, 38, pp.90–101. <https://doi.org/10.1016/j.jher.2021.05.004>
- Rajaratnam, N. and Muralidhar, D., 1969. Flow over a trapezoidal broad-crested weir. *Journal of Hydraulic Research*, 7(4), pp.311–327. <https://doi.org/10.1080/00221686909500272>

- Ratih, S.Y., Prandono, T. and Misbakh, K.B., 2025. Analisis koefisien debit bangunan ukur daerah irigasi Kalibawang. *Jurnal Teknik Sipil*, 21(1), pp.19–31. <https://doi.org/10.28932/jts.v21i1.7504>
- Samani, Z.A. and Magallanez, H., 2000. Accuracy of flow measurement using long-throated flumes and broad-crested weirs. *Applied Engineering in Agriculture*, 16(5), pp.505–508. <https://doi.org/10.13031/2013.5383>
- Santoso, R.H., Wibowo, D. and Prasetyo, F.A., 2020. Calibration and validation of discharge coefficients for Crump weirs under laboratory and field conditions. *Irrigation Science*, 38(4), pp.345–356. <https://doi.org/10.1007/s00271-020-00671-9>
- Sari, K. and Budiawan, S., 2020. Analisis kebutuhan air irigasi pada jaringan sekunder di Kota Palopo. *Jurnal Ilmiah Ilmu-Ilmu Teknik*, 5(2), pp.82–90.
- Silveira, N. *et al.*, 2014. Source of errors in the measurements of underwater profiling radiometer. *Indian Journal of Geo-Marine Sciences*, 43(1), pp.88–95.
- Singh, S.K., Kumar, R. and Sharma, A., 2015. Measurement and control of irrigation water discharge for efficient water management. *Agricultural Water Management*, 150(1), pp.1–10. <https://doi.org/10.1016/j.agwat.2014.12.005>
- Sun, L., Li, Y., Tang, Q. and Wang, D., 2024. Flow measurement mechanism and hydraulic performance of airfoil weir-orifice facility. *Water Supply*, 24(10), pp.3398–3407. <https://doi.org/10.2166/ws.2024.151>
- Tallar, R.Y. *et al.*, 2021. Validasi alat ukur taraf muka air digital sederhana untuk saluran irigasi. *Jurnal Teknik Sipil*, 17(1), pp.1–87.
- Termini, D., 2015. Effects of vegetation on flow resistance and sediment transport in open channels. *Environmental Fluid Mechanics*, 15(2), pp.373–389. <https://doi.org/10.1007/s10652-014-9375-4>
- Yildiz, M., Yıldız, M. and Yılmaz, A., 2021. Hydraulic performance of inclined crest weirs. *Journal of Hydrology*, 603, 126880. <https://doi.org/10.1016/j.jhydrol.2021.126880>