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REFERENCES

Acker and white. Report SR 237. (1990). Sediment Transport: The Acker And White Theory Updated. (HR wallingford. howberry park, wellingford)

Ackerman, C. T., Fleming, M. J., & Brunner, G. W. (2008). Hydrologic and hydraulic models for performing dam break studies. In *World Environmental and Water Resources Congress 2008: Ahupua'A* (pp. 1-11).

ADB .(2016). Indonesia Country Water Assessment. Asia Development Bank. Metro Manila, Philippines

Almedeij, J., and Diplas, P. (2005). "Bed load sediment transport in ephemeral and perennial gravel-bed streams." EOS Transactions of the American Geophysical Union. 86(44), 429- 434

Anonymous (1983). Transmission of sediment by water. chapter 4. United states department of agriculture).

Barry, J. J. (2007). Bed load transport in gravel-bed rivers. Disertation.University of Idaho. USA

Boangmanalu, A. O. (2013). Kajian Laju Angkutan Sedimen Pada Sungai Wampu. *Jurnal Teknik Sipil Usu*, Vol 3 No 2. Medan: USU

Chow, V.T.,Maidment, D.R., and Mays, L.W., 1988, *Applied Hydrology*. McGraw-Hill International Edition, New York

Curran, J. C., & Tan, L. (2010). An investigation of bed armoring process and the formation of microclusters. In Joint Federal Interagency Conference (Vol. 2).).

Davie, T. (2008). Fundamentals of hydrology. Routledge.London and Newyork.

Dipova, N. (2017). Determining The Grain Size Distribution Of Granular Soils Using Iivage Analysis. *Acta Geotechnica Slovenica*, *14*(1), 28-37.)

Einstein, H. A. (1950). *The bed-load function for sediment transportation in open*

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channel flows (Vol. 1026). Washington, DC: US Department of Agriculture.

Engelund, F. & Hansen, E. (1967). *A monograph on sediment transport in alluvial streams*. Copenhagen: Teknisk Forlag.

Folk, 1980; Krumbein and Sloss, 1963 - Folk, R. L., 1980. Petrology of Sedimentary Rocks. Austin: Hemphill Publishing).

Games, J. 2015. Flood Hydrograph Component. Available at https://www.coolgeography.co.uk/GCSE/AQA/Water%20on%20the%20Land/Hydrographs/Hydrographs.htm.

Gomez, B., & Church, M. (1989). An assessment of bed load sediment transport formulae for gravel bed rivers. *Water Resources Research*, *25*(6), 1161-1186.

Gomez, B., and M. Church (1989), *An assessment of bedload sediment transport formulae for gravel bed rivers, Water Resour.* Res., 25, 1161–1186.

Gyr, A., & Hoyer, K. (2006). Sediment Transport: A Geophysical Phenomenon Fluid Mechanics and Its Applications. Springer

Hakim, S, R. (2015). Studi Laju Sedimentasi Waduk Bili-Bili Pasca Pengembangan Bangunan Penahan Sedimen. Gowa: Universitas Hasanuddin

Hambali, R., & Apriyanti, Y. (2016). Studi Karakteristik Sedimen Dan Laju Sedimentasi Sungai Daeng–Kabupaten Bangka Barat. *Forum Profesional Teknik Sipil* (Vol. 4, No. 2): Bangka Belitung University.

Hidayah, N., Suprapto, M., & Suyanto, S. (2013). Kajian Angkutan Sedimen Pada Sungai Bengawan Solo (Serenan-Jurug). *Matriks Teknik Sipil*, *1*(2). Surakarta: Universitas Surakarta

Hidayatulloh, I.S. (2017). Pemodelan Bencana Banjir (Studi Kasus Di Dusun Nasiri, Kecamatan Huamual, Kabupaten Seram Bagian Barat). Yogyakarta: Universitas Gadjah Mada.

hydrology project (2003). hydrometry design manual volume 4, dhv consultants & delft hydraulics with halcrow, tahal, ces, org & jps, netherland

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Julien, P. Y. (2010). *Erosion and sedimentation*. Cambridge University Press.

Junaidi. (2012). Kajian Angkutan Sedimen Dasar Pendekatan Laju Angkutan Sedimen Tak Berdimensi Einstein (1950). *Wahana TEKNIK SIPIL Vol. 17 No. 1 Juni 2012 11-22*

Kuo, C. Y., Frost, J. D., Lai, J. S., & Wang, L. B. (1996). Three-dimensional image analysis of aggregate particles from orthogonal projections. Transportation research record, 1526(1), 98-103.

Koc, A. B. (2007). Determination of watermelon volume using ellipsoid approximation and image processing. *Postharvest biology and technology*, *45*(3), 366-371.

Kumara, G. J. J., Hayano, K., & Ogiwara, K. (2012). Image analysis techniques on evaluation of particle size distribution of gravel. *International Journal of GEOMATE*, *3*(1 SERL 5), 290-298.

Laube, K. A. (1991). Sedimentation analysis of Iowa lakes. Lowa: Iowa State University

Legono, D., & Rahardjo, A. P. (2017). Lahar Flow Disaster, Human Activities, and Risk Mitigation on Volcanic Rivers: Case Study of Rivers on Mount Merapi Slopes, Indonesia. Gravel-Bed Rivers: Processes and Disasters, 549-565.

Lopez Gloria (2017). Grain Size Analysis pp. 341-348 Encyclopedia of Earth Science Series Encyclopedia of Geoarchaeo

Michaud, J. P., & Wierenga, M. (2005). Estimating Discharge and Stream Flows. A Guide for Sand and Gravel Operators. Ecology Publication, (05-10), 070

Millidine, K. J., Malcolm, I. A., & Gibbins, C. N. (2011). The potential of digital photogrammetry for characterising streambed grain-size distributions in fish habitat studies: A feasibility and Limitations Report. Marine Scotland—Science, Freshwater Laboratory: Pitlochry, Scotland.

Shekhar Miyata, S. Rahardjo, A. (2014). Manuals of Simulation Program for GIS Based Rainfall-Runoff Model. Kyoto: Kyoto University.

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Musthofa, A. (2015). Simulasi Banjir Bandang Untuk Sistem Peringatan Dini Dan Peta Bahaya (Studi Kasus Bencana Banjir Bandang Di Dusun Nasiri, Kecamatan Huamual, Kabupaten Seram Bagian Barat). Yogyakarta: Universitas Gadjah Mada.

Padmalal, D., & Maya, K. (2014). Sand mining: environmental impacts and selected case studies. Springer

Parker, G., Hassan, M., & Wilcock, P. (2007).10 Adjustment of the bed surface size distribution of gravel-bed rivers in response to cycled hydrographs. Developments in Earth Surface Processes, 11, 241-285.

Petersen-Overleir, A. (2014). Some challenges in hydrometry. La Houille Blanche, (4), 53-56.

Pratama, M. I (2019). Analisis Angkutan Sedimen Pada Sungai Sombe, Palu Sulawesi Tengah. . *Thesis.* Yogyakarta: Universitas Gadjah Mada.

Pratama, M. I., 2019. Analisis Transpor Sedimen Serta Pengaruh Aktivitas Penambangan Pada Sungai Sombe, Kota Palu, Sulawesi Tengah. Jurnal Teknik Pengairan, Volume 10, Nomor 2, hlm 84-96, Universitas Brawijaya, Malang.

Primahesha, A (2017). Analisis Karakteristik Hujan Penyebab Banjir Pada Sistem Peringatan Dini Di Sungai Dengan Kemiringan Curam.*Tesis.* Yogyakarta: Universitas Gadjah Mada.

Putra, R.M. (2019). Analisis Perubahan Dasar Sungai Pada Kejadian Banjir di Sungai Nangka, Kecamatan Sambelia, Kabupaten Lombok Timur Dengan Simulasi Transpor Sedimen. *Thesis.* Yogyakarta: Universitas Gadjah Mada.

Rosgen, D. L. (1994). A classification of natural rivers. Catena, 22(2), 169 - 199.

Rottner, J., 1959. *A Formula for Bed-Load Transportation*. LaHouille Blanche, Vol.14 No.3. pp. 285-307

Rubin, D. M. (2004). A simple autocorrelation algorithm for determining grain size from digital images of sediment. Journal of Sedimentary Research, 74(1), 160-165.).

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Shekhar, S., & Xiong, H. (Eds.). (2007). Encyclopedia of GIS. Springer Science & Business Media.

Soewarno., 1995. *Pengukuran dan Pengolahan Data Aliran Sungai*. Bandung: NOVA

ri Harto Br, 1993. *Analisis Hidrologi Teori Masalah Penyelesaian.* Jakarta: PT Gramedia Pustaka Utama.

Styawan, A.P. (2018). Warning Time Analysis Of Nasiri River Flash Flood Due To Several Possible Natural Dam Break Events. *In Journal Of The Civil Engineering Forum* (Vol. 4, No. 1, Pp. 1-12).

Sudjarwadi, 1987. *Teknik Sumber Daya Air.* Yogyakarta: PAU-IT Universitas Gadjah Mada.

Sujono, J., 2014. *Petunjuk Singkat Aplikasi HEC-HMS*. Yogyakarta: UGM

Tess Hanson, 2012. Majoring Handout, Nick Koutsunis Department of Civil & Engineering Colorado State University

Triatmodjo, B., 2009, *Hidrologi Terapan*, Cetakan kedua, Beta Offset, Yogyakarta

Umum, D. P., Penelitian, B., Pengembangan, P. U., & Indonesia, S. N. (1990). *Metode Pengujian Berat Jenis Dan Penyerapan Air Agregat Kasar*. SNI 03-1969-1990.

United States. Bureau of Reclamation, & United States. Natural Resources Conservation Service. (2001). Water measurement manual. The Bureau.

Van Rijn, L. C. (1993). *Principles of sediment transport in rivers, estuaries and coastal seas* (Vol. 1006). Amsterdam: Aqua publications.

Widowati, A. P. (2017). Hydraulic Modeling On Steep Slope Watersheds(At Kali Putih Watershed, Magelang, Central Java, And Nasiri Watershed, West Seram, Maluku).*Thesis.* Yogyakarta: Universitas Gadjah Mada.

Wilcock, P. R. (2001). Toward a practical method for estimating sediment-transport rates in gravel-bed rivers. *Earth Surface Processes and Landforms*, *26*(13), 1395-1408.

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Yager, E. M., Kirchner, J. W., & Dietrich, W. E. (2007). Calculating bed load transport in steep boulder bed channels. *Water Resources Research*, *43*(7).

Yang, C. T., 1996. *Sediment Transport: Theory and Practice*. New York. USA: McGraw-Hill

Yüce, M. İ., Eşit, M., & Ercan, B. A (2018) Relationship between Flow Discharge, Sediment Discharge and Sub-Basin Areas in Ceyhan Catchment. 13th International Congress on Advances in Civil Engineering, 12-14 September 2018, Izmir. Turkey