

## DAFTAR PUSTAKA

- Abdulkareem, J. H., Pradhan, B., Sulaiman, W. N. A. & Jamil, N. R. (2017). Quantification of Runoff as Influenced by Morphometric Characteristics in a Rural Complex Catchment, *Earth Systems and Environment*. <https://doi.org/10.1007/s41748-018-0043-0>.
- Ajward, M. H. 1996. *A Spatially Distributed Unit Hydrograph Model Using a Geographical Information System. Dissertation*. Calgary, Civil Engineering Department. University of Calgary.
- Altaf, F., Meraj, G. & Romshoo, S., A. (2013). Morphometric Analysis to Infer Hydrological Behaviour of Lidder Watershed, Western Himalaya, India, *Geography Journal*, ID 178021. <http://dx.doi.org/10.1155/2013/178021>.
- Arcement Jr, G. J., & Schneider, V. R, (1984), *Guide For Selecting Manning's Roughness Coefficients For Natural Channels And Flood Plains*, U.S Geological Survey, Report No. FHWA-TS-84-204.
- Auvet, B., Lidon, B., Kartiwi, B., Le Bissonnais, Y. & Poussin, J.C. 2015. Modeling runoff and erosion risk in a small steep cultivated watershed using different data sources: from on-site measurements to farmers' perceptions. *Hydrol. Earth Syst. Sci. Discuss*, **12**, 9701-9740.
- Benson, M. A., & Dalrymple, T., 1967, *General Field and Office Procedures for Indirect Discharge Measurements*, Techniques of Water-Resources Investigations of the United States Geological Survey, book 3, (Chapter A1).
- Beven, K.J. & Kirkby, M.J. 1979. A physically-based variable contribution area model of basin hydrology. *Hydrological Science Bulletin*, **24**, 43-69.
- Bourletsikas, A., Baltas, E. & Mimikou, M. 2006. Rainfall-Runoff Modeling for an Experimental Watershed of Western Greece Using Extended Time-Area Method and GIS. *Journal of Spatial Hydrology*, **6**, 93-104.
- Caissie, D., Jolicoeur, S., Bouchard, M. & Poncet, E. 2002. Comparison of streamflow between pre and post timber harvesting in Catamaran Brook (Canada). *Journal of Hydrology*, **258**, 232-248.
- Charlier, J. B., Cattani, P., Moussa, R. & Voltz, M. 2008. Hydrological Behaviour and Modelling of a Volcanic Tropical Cultivated Catchment. *Hydrological Processes*, **22**, 4355-4350.
- Cheng, Q. 2008. A combined power-law and exponential model for streamflow recessions. *Journal of Hydrology*, **352**, 157-167.
- Chow, V.T., Maidment, D.R. & Mays, L.W. 1988. *Applied Hydrology*. Singapore, McGraw-Hill, Inc.

- Chu, X. & Steinman, A. 2009. Event and Continuous Hydrologic Modeling with HEC-HMS. *Journal of Irrigation and Drainage Engineering*, **135**, 119-124.
- Croke, B. F. W., Blakers, R. S., Kelly (Nee Letcher), R. A. & Jakeman, A. J. 2013. Catchment Hydrology Based in part on the article “Catchment hydrology” by R. A. Letcher and A. J. Jakeman, which appeared in the Encyclopedia of Environmetric. In: *Encyclopedia of Environmetrics*. Chichester, UK, John Wiley & Sons, Ltd.,
- De Smedt, F., Liu, Y.B. & Gebremeskel, S. 2000. Hydrologic modeling on a catchment scale using GIS and remote sensed land use information, In: Brebbia, C.A. In: *Risk Analysis II*. Southampton, Boston, WTI Press, 295–304.
- Dervos, S., Baltas E, A. & Mimikou, M.A. 2006. Rainfall-Runoff Simulation in an Experimental Basin Using GIS Method. *Journal of Environmental Hydrology*, **24**, 1-14.
- Dhami, S. & Pandey, A. 2013. Comparative Review of Recently Developed Hydrologic Models. *Journal of Indian Water Resources Society*, **33**, 34–42.
- Dodov, B. & Foufoula-Georgiou, E. (2005). Fluvial processes and streamflow variability: interplay in the scale-frequency continuum and implications for scaling, *Water Resources Research*, **41(5)**, 1–18.
- Du, J., Hu, Y., Xu, Y. & Xu, C.Y. 2009. Development and Testing Of A New Storm Runoff Routing Approach Based on Time Variant Spatially Distributed Travel Time Method. *Journal of Hydrology*, **369**, 44–54.
- Farhan, Y. (2017). Morphometric Assessment of Wadi Wala Watershed, Southern Jordan Using ASTER (DEM) and GIS, *Journal of Geographic Information System*, **9**, 158-190.
- Gioti, E., Riga, C., Kalogeropoulos, K. & Chalkias, C. 2013. A GIS-Based Flash Flood Runoff Model Using High Resolution DEM and Meteorological Data. In: *EARSel EProceedings*, **12**, 33-44.
- Guo, J.C.Y. 2001. Rational Hydrograph Method for Small Urban Watersheds. *Journal of Hydrologic Engineering*, **6**, 352–356.
- Hadi, M.P. 2003. *Hubungan Antara Hujan dan Limpasan Selama Hujan Sebagai Fungsi Karakteristik Daerah Aliran Sungai: Suatu Studi Kasus Pemodelan Hidrologi Di Daerah Aliran Sungai Bengawan Solo Hulu, Indonesia*. *Dissertasi*. Yogyakarta, Universitas Gadjah Mada.
- Hawkins, R. H. 1993. Asymptotic determination of runoff curve numbers from data. *Journal of Irrigation and Drainage Engineering*. American Society of Civil Engineering, **119(2)**, 334-345.

- Her, Y. & Heatwole, C. 2010. A simple distributed overland and channel routing method for the Time-Area approach to develop direct runoff hydrograph. In: *An ASABE Meeting Presentation, Pittsburgh, Pennsylvania, June 20 - June 23, 2010. Paper No. 1009391.*
- Jain, V. & Sinha, R. (2003) Evaluation of Geomorphic Control on Flood Hazard through Geomorphic Instantaneous Unit Hydrograph. *Current Science*, **85** (11), 26-32.
- Jain, M.K. & Singh, V.P. 2005. DEM-based Modelling of Surface Runoff Using Diffusion Wave Equation. *Journal of Hydrology*, **302**, 107–126.
- Jamulya. 1982. *Identifikasi Jenis-Jenis Tanah Melalui Interpretasi Citra Landsat Di Daerah Istimewa Yogyakarta.* Universitas Gadjah Mada.
- Jencso, K.G. & McGlynn, B.L. 2011. Hierarchical controls on runoff generation: Topographically driven hydrologic connectivity, geology, and vegetation. *Water Resource Research*, **47**, 1-6.
- Kang, K. & Merwade, V. 2011. Development and Application of A Storage–Release Based Distributed Hydrologic Model Using GIS. *Journal of Hydrology*, **403**, 1-13.
- Li, X. Y., Contreas, S., Sole-Benet, A., Canton, Y., Domingo, F., Lazaro, R., Lin, H., Wesemael, B., V. & Puigdefabregas, J. 2011. Controls of infiltration-runoff processes in Mediterranean karst rangelands in SE Spain. *Catena*, **86**, 98–109.
- Liu, Y. B., Gebremeskel, S., De Smedt, F., Hoffmann, L. & Pfister, L. 2003. A Diffusive Transport Approach for Flow Routing in GIS-Based Flood Modeling. *Journal of Hydrology*, **283**, 91–106.
- Maidment, D. R. 1993. Developing a Spatially Distributed Unit Hydrograph by Using GIS. *IAHS Publ.*, **211**, 181–192.
- Maidment, D. R., Olivera, F., Calver, A., Eatherall, A. & Fraczek, W. 1996. Unit Hydrograph Derived from A Spatially Distributed Velocity Field. *Hydrological Processes*, **10**, 831–844.
- McCuen, R. H. 1998. *Hydrologic Analysis and Design*, 2nd ed. New Jersey, Prentice Hall.
- McDonnell, J. J., Hooper, R., Sivapalan, M., Kirchner, J., Vache, K., Dunn, S., Roderick, M., L., Grand, G., Selker, J., Haggerty, R. & Weiler, M. 2007. Moving beyond heterogeneity and process complexity: A new vision for watershed hydrology. *Water Resources Research*, **43**, 1-6.

- McGuire, K., J., McDonnell, J., J., Weiler, M., Kendall, C., McGlynn, B., L., Welker, J., M. & Seibert, J., 2005, The Role of Topography on Catchment-Scale Water Residence Time, *Water Resources Research*, **41**, W05002, 1–14.
- Meky, M. E. A., Ghoraba S. M. & Rashwan, I. M. H., (2015), Effect of Water Depth Change on Manning Coefficient for partially-filled Circular Culverts, *Mansoura Engineering Journal*, **40 (2)**, 38–52.
- Melesse, A. M. & Graham, W.D. 2004. Storm Runoff Prediction Based on a Spatially Distributed Travel Time Method Utilizing Remote Sensing and GIS. *Journal of the American Water Resources Association*, **40**, 863–879.
- Mockus, V. 1949. *Estimation of Total (and Peak Rates of) Surface Runoff for Individual Storms*. Exhibit A of Appendix B, Interim Survey Report, Grand (Neosho) River Watershed.
- More, R. J. 1969. The Basin Hydrological Cycle. In: Chorley, R. J. (ed.) *Introduction to Physical Hydrology*. Methuen & Co Ltd., 27–36.
- Muzik, I. 1996. A GIS-derived distributed unit hydrograph. In: *HydroGIS 96: Application of Geographic Information Systems in Hydrology and Water Resources Management*, IAHS Publ. No. 235, 453-460.
- Narayan, K., Dikshit, P.K.S. & Dwivedi, S.B. 2013. Spatially Distributed Unit Hydrograph for Varuna River Basin of India. *International Journal of Civil, Structural, Environmental and Infrastructure Engineering Research and Development (IJCSETERD)*, **3**, 27–34.
- Noto, L. V. & La Loggia, G. 2007. Derivation of a Distributed Unit Hydrograph Integrating GIS and Remote Sensing. *Journal of Hydrologic Engineering*, **12**, 641–650.
- Okoko, E. E. & Olujinmi, J. A. B. (2003). The Role of Geomorphic Features in Urban Flooding: The case of Ala River in Akure, Nigeria. *Int. Journal of Environmental Issues*, **1(1)**, 192-201.
- Olivera, F. & Maidment, D. 1999. Geographic Information System (GIS)-Based Spatially Distributed Model for Runoff Routing. *Water Resources Research*, **35**, 1155–1164.
- Oruonye, E. D., Ezekiel, B. B., Atiku, H. G., Baba, E. & Musa, N. I. (2016). Drainage basin morphometric parameters of River Lamurde: Implication for hydrologic and Geomorphic processes. *Journal of Agriculture and Ecology Research International*, **5(2)**, 1-11.
- Pareta, K. & Pareta, U. (2012). Integrated watershed modeling and characterization using GIS and remote sensing techniques, *Indian Journal of Engineering*, **1(1)**, 81-91.

- Peters, N. E. 1994. Hydrologic Processes. In: Moland, B. & Cerny, J. (eds) *Biogeochemistry of Small Catchments: A Tool for Environmental Research*. John Wiley & Sons. Ltd., 207-228.
- Ponce, V. M. 1989. *Engineering Hydrology: Principles and Practices*. Prentice Hall.
- Ponce, V. M. & Hawkins, R.H. 1996. Runoff Curve Number: Has It Reached Maturity? *Journal of Hydrologic Engineering*, **1**, 11–19.
- Prasena, A. & Shrestha, D.B.P. 2013. Assessing the Effects of Land Use Change on Runoff in Bedog Sub Watershed Yogyakarta. *Indonesian Journal of Geography*, **45**, 48-61.
- Priyadarshinee, K., Mohanty, L., & Khatua, K. K., (2015), Variation of Roughness Coefficient in Compound Channel, *IOSR Journal of Mechanical and Civil Engineering*, 13 – 18.
- Rahardjo, W., Sukandarrumidi & Rosidi, H.M.D. 1995. *Geologi Lembar Yogyakarta, Jawa*. Bandung.
- Rai, P. K., Mishra, S., Mohan, K., Ahmad, A. & Mishra, V. N. (2014). A GIS-based approach in drainage morphometric analysis of Kanhar River Basin, India, *Appl Water Sci*. DOI 10.1007/s13201-014-0238-y.
- Ramírez, J. A. 2000. Prediction and Modeling of Flood Hydrology and Hydraulics. In: Wohl, E. (ed.) *Inland Flood Hazards: Human, Riparian and Aquatic Communities Eds*. Cambridge University Press.
- Reddy, O. G. P., Maji, A. K. & Gajbhiye, S., K. (2004). Drainage morphometry and its influence on landform characteristics in a basaltic terrain, Central India—a remote sensing and GIS approach, *Int J Appl Earth Obs Geoinformatics*, **6**, 1–16.
- Ritter, D. F., Kochel, R. C. & Miller, J. R. (1995). *Process Geomorphology*. Long Grove, IL, Waveland Press Inc.
- Romshoo, S. A., Bhat, S. A., & Rashid, I. (2012). Geoinformatics for assessing the morphometric control on hydrological response at watershed scale in the Upper Indus Basin, *J. Earth Syst. Sci.*, **121(3)**, 659–686.
- Schumm, S. A. (1956). Evolution of Drainage systems and Slopes in Badlands at Perth Amboy, New Jersey. *Geological Society of America Bulletin*, **67**, 597-646.
- Setyawati, S. & Ashari, A., 2017. Geomorfologi Lereng Baratdaya Gunungapi Merapi Kaitannya dengan Upaya Pengelolaan Lingkungan and Kebencanaan, *Geomedia*, **15 (1)**, 45 – 60.

- Seyhan, E. 1977. *Mathematical Simulation of Watershed Hydrologic Processes*. Geografisch Instituut der Rijksuniversiteit te Utrecht, The Netherlands.
- Singh, S. & Singh, M. C. (1997). Morphometric analysis of Kanhar river basin. *Natl Geogr J India*, **43**,31–43.
- Singh, V. P. & Frevert, D. K. 2002. Watershed Models. *Environmental and Water Resources History*, 56-167.
- Singh, V.P. & Woolhiser, D.A. 2002. Mathematical Modeling of Watershed Hydrology. *Journal of Hydrologic Engineering*, **7**, 270-292.
- Sitterson, J., Knightes, C., Parmar, R., Wolfe, K., Mucche, M. & Avant, B. 2017. An Overview of Rainfall-Runoff Model Types. *EPA/600/R-14/152*.
- Smith, C. F., Cordova, J. T., & Wiele, S. M. 2010. The Continuous Slope-Area Method for Computing Event Hydrograf. USGS/2010/5241.
- Stewart, M. K., & J. J. McDonnell (1991), Modeling base flow soil water residence times from deuterium concentrations, *Water Resour. Res.*, **27**, 2681– 2693.
- Sun, S. & Deng, H. 2003. A catchment surface runoff simulation for land surface model study. In: *Weather Radar Information and Distributed Hydrological Modelling (Proceedings of Symposium HS03 Held during IUGG2003 at Sapporo. July 2003)*. IAHS Publ. No. 282. 308–314.
- Surono, Toha, B. & Sudarno, I. 1992. *Geologi Lembar Surakarta-Giritontro, Jawa*. Bandung.
- Taofik, O. K., Innocent, B., Christopher, N., Jidauna, G. G. & James, A. S. (2017). A Comparative Analysis of Drainage Morphometry on Hydrologic Characteristics of Kereke and Ukoghor Basins on Flood Vulnerability in Makurdi Town, Nigeria, *Hydrology*, **5**( 3), 32-40.
- Todini, E. 2011. History and Perspectives of Hydrological Catchment Modelling. *Hydrology Research*, **42**, 73-85.
- USDA Natural Resources Conservation Service. 2002. Land Use and Treatment Classes. In: *National Engineering Handbook, Part 630: Hydrology*. Washington, DC.
- USDA Natural Resources Conservation Service. 2004a. Estimation of Direct Runoff from Storm Rainfall. In: *National Engineering Handbook, Part 630: Hydrology*. Washington, DC.
- USDA Natural Resources Conservation Service. 2004b. Hydrologic Soil-Cover Complexes. In: *National Engineering Handbook, Part 630: Hydrology*. Washington, DC.

- USDA Natural Resources Conservation Service. 2009. Hydrologic Soil Groups. *In: National Engineering Handbook, Part 630: Hydrology*. Washington, DC.
- Ward, R. C. & Robinson, M. (1990). *Principle of Hydrology*, McGraw-Hill, Inc., London.
- Wood, S. J., Jones, D. A. & Moore, R, J. 2000. Static and dynamic calibration of radar for hydrological use. *Hydrology and Earth System Science*, **4**, 545-554.
- Yahya, F., Omar, A. & Ali, S. (2016). Morphometric Analysis and flash floods assessment for drainage basins of the Ras En Naqb Area, South Jordan using GIS. *Journal of Geoscience and Environment Protection*, **14**, 9-33.
- Zabaleta, A. & Antigüedad, I. 2013. Streamflow response of a small forested catchment on different timescales. *Hydrol. Earth Syst. Sci.*, **17**, 211-223.