



Dr. MAHNEDRA KUMAR CHOUDHARY

Designation	Professor				
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Date of Birth	28-08-1967				
Educational Qualification	Degree	Subject / Discipline	University/Institution		Year of Passing
	B.E.	Civil Engineering	Rani Durgavati University, Jabalpur		1989
	M.E.	Civil - Irrigation Water Management	M.S.U. of Baroda, Vadodara, Gujarat		1992
	Ph.D.	Hydrology	Department of Hydrology, I.I.T. Roorkee		2016
Experience (33 years)	Name of Employer	Designation	Period		
			From	To	Years
	MANIT, Bhopal	Professor	24-12-2024	Cont.	02 months
	MANIT, Bhopal	Associate Professor	24-04-2018	23-12-2024	06 years 08 months
	MANIT, Bhopal	Associate Professor	17-02-2010	23-04-2018	08 years 02 months
	MANIT, Bhopal	Assistant Professor	17-02-2007	16-02-2010	03 years
	MANIT, Bhopal	Senior Lecturer	17-02-2002	16-02-2007	05 years
	MANIT, Bhopal	Lecturer	17-02-1997	16-02-2002	05 years
WREMI, M.S.U. of Baroda	Lecturer	01-10-1992	15-02-1997	04 years 05 months	
Specialization	Water Resources Engineering				

Publication	Total publication in International Journals/National Journal/National Conference/International Conference: 67			
Member/Fellow of professional bodies	1. Institute of Engineers India (IEI) 2. Indian Society of Technical Education (ISTE) 3. Indian Water Resources Society (IWRS) 4. Indian Association of Hydrology (IAH) 5. Indian Geological Congress (IGC) 6. Indian Science Congress Association (ISCA) 7. Indian Society for Hydraulics (ISH) 8. Indian Meteorological Society (IMS) 9. Indian Water Work Association (IWWA) 10. Indian Society of Remote Sensing (ISRS)			
Achievements/Awards	1. Best Research Paper Award by Sardar Patel University Vallabh Vidyanagar, Gujarat.in 1993 2. Scholarship by MHRD, Government of India, for pursuing M.E. at Water Resources Engineering and Management Institute, M.S. University of Baroda, Gujarat (1990-1992) 3. QIP Fellowship by MHRD, Government of India, for pursuing Ph. D. at Department of Hydrology, IIT Roorkee. (2005-2008) 4. Awarded as Good Teacher in the session 2010-11, Received Letter of appreciation and Cash prize of Rs. 5000/- (Five thousand only) from Registrar, MANIT, Bhopal.			
Number of Ph.D. Thesis and P.G. Projects guided	M. Tech. – 44 (Completed), Ph. D. Thesis guided – 02 (Completed), 03 (Ongoing)			
Research Project	Sr. No.	Title	Client	Status
	1	Optimization of Drip Irrigation System for Orchard and Row crops	Ministry of Water Resources, GOI, New Delhi.	Completed in 1996 at MSU of Baroda.
	2	Impact of Climate Change on Water Resources of Tapi basin	Ministry of Water Resources, RD&GR, GOI, New Delhi	Completed in May 2022 at MANIT, Bhopal.

Project/ Consultancy undertaken	Carried out more than 25 consultancy projects in Water Resources Engineering and Surveying (DGPS Survey) worth more than Rupees 02 Crores.
Administrative work done	1. Associate Dean UG 2. PG Coordinator, Water Resources Engineering 3. Hostel Warden, 4. Assistant Proctor, 5. Assistant Exam Superintendent 6. Incharge Survey and Remote Sensing Lab 7. Co-Professor incharge, Water supply 8. Member UG admission committee 9. Member PG admission committee 10. Member of Departmental Post Graduate Program Committee (DPPC) 11. Member of Departmental Research Program Committee (DRPC) 12. Faculty coordinator, Training and Placement 13. Valuation coordinator 14. Member Hindi Samiti 15. Professor incharge of different sports and Gymnasium 16. Faculty advisor of Association of Civil Engineering Students 17. Coordinator Departmental Library 18. Member Student Council at IIT Roorkee 19. Member Board of Studies in Civil Engineering Department, MANIT Bhopal 20. Member Board of Academic Council in Civil Engineering Department, MANIT Bhopal.

List of publication

1. Choudhary, M.K., Shete, D.T. and Modi, P.M. (1993). Simplified Design of Micro Irrigation System. *Proceedings of 15th International Congress of Irrigation and Drainage, Hague, Netherland, Sept. 1993.*
2. Choudhary, M.K., Shete, D.T. and Modi, P.M. (1993). A Case Study of Micro and Surface Irrigation Systems for Banana Crop. *Proceedings of 15th International Congress of Irrigation and Drainage, Hague, Netherland, Sept. 1993.*
3. Thawait A.K., Shirvastava, R., Chauhan, M.S. and Choudhary, M.K. (1998). Hazards of Translocation and Transformation of Pesticides and Remedial Measures. *National Conference on Pollution Prevention and Control, R.E.C., Hamirpur, 23rd Dec. 1998.*
4. Choudhary, M.K. and Shirvastava, R. (1999). Comparatative Analysis of Micro and Border Irrigation System for Banana Crop. *National Seminar on Water Resources Development and Management for Sustainable Crop Production, Walmatari, Hyderabad, Feb. 12-13, 1999.*
5. Gahlot, V.K. and Choudhary, M.K. (1999). Planning and Design of Mini-Micro Hydro Power Project. *Proceedings of 23rd National Energy Convention, 99, D.A.V., Indore, Dec. 20-22, 1999.*
6. Mittal, S.K., Katiyar, S.K. and Choudhary, M.K. (2002). Hydrological Modelling Using Geographical Information System (Gis) Techniques. *Proceedings of International Conference on Remote Sensing, GIS and GPS, MACT, Bhopal, 16-19 Jan., 2002.*
7. Choudhary, M.K. and Nayak, T.R. (2003). Estimation of Soil Erosion in Sagar Lake Catchment of Central India. *Proceedings of International Conference on Water and Environment, RRL, Bhopal, Dec. 15-18, 2003.*
8. Choudhury, M. K., and Nayak, T. (2003). Estimation of Soil Erosion in Sagar Lake Catchment of Central India. In V. P. Singh & R. N. Yadava (Eds.), *Watershed Hydrology* (Vol. 15, pp. 387-392). ISBN: 81-7764-547-1
9. Choudhary, R., Jhajharia, D. and Choudhary, M.K. (2009). Climate and Its Variations over Bikaner 1951-2008. *Journal of Indian Geological Congress, 1(2), 79-86.*
10. Gupta, P., Nayak, T.R. and Choudhary, M.K. (2015). GIS Based Water Balance Study for Estimation of Runoff in A Small River Watershed. *Journal of India Water Resources Society, 35(3), 26-33. ISSN 0970-6984.*
11. Nayak, T.R., Choudhary, M.K. and Sahu, H. (2015). Assessment of Soil Erosion Based on USLE Model and application of GIS Symposium on Hydrology. *India Association of Hydrologists (IAH), Delhi, India.*
12. Swetapadma, S., Mittal, S.K. and Choudhary, M.K. (2015). Experimental Analysis of

Brink Depth in a Smooth Rectangular Channel. *International Journal of Innovative Science, Engineering & Technology*, 2, 639-646.

13. Swetapadma, S., Mittal, S.K. and Choudhary, M.K. (2015). Experimental Analysis of Brink Depth at Rough Rectangular free Overfall. *International Conference on Hydraulics, Water Resources and River Engineering (HYDRO 2015)*, IIT Roorkee, India.
14. Nayak T.R., Choudhary, M.K. and Pandram, V.K. (2016). Modeling the Crop Water Requirement using CROPWAT: A Case Study of Samart Ashok Sagar (Halali) Project Command. *India Water Week-2016, New Delhi*.
15. Pandey, P., Mittal, S.K. and Choudhary, M.K. (2016). Flow Characteristics of Sharp Crested Rectangular Weir: A Review. *International Journal of Innovative Science, Engineering & Technology*, 3(3), 171-178, ISSN 2348 – 7968.
16. Pandey, R., Mittal, S.K. and Choudhary, M.K. (2016). Study of Flow Characteristics of Contracted Sharp Crested Rectangular Weir. *International Journal of Innovative Science, Engineering & Technology*, 3(2), 97-103, ISSN 2348 – 7968.
17. Vishwakarma, A., Choudhary, M. K. and Nayak, T. R. (2016). Estimation of crop water requirement using Cropwat: A case study of Bila command. *National Conference on Water Resources & Flood Management with special reference to Flood Modelling (WRFM)*, SVNIT, Surat, WRH-54(1-10).
18. Kumar, S., Choudhary M.K. and Nayak, T.R. (2016). Seepage analysis of Madhya Ganga Canal, Bijnor, U.P. *National Conference on Water Resources & Flood Management with special reference to Flood Modelling (WRFM)*, SVNIT, Surat, WRH-68(1-6)
19. Choudhary, M. K. and Vishwakarma, A. (2016). Probability analysis of rainfall and crop planning using Cropwat model: A case study of Bila command. *Proceedings of International Conference on Hydraulics, Water Resources and Coastal Engineering (Hydro2016)*, CWPRS, Pune.
20. Semil, M.K., Choudhary, M.K. and Patel, G.K. (2017). Comparative Study of Surface Irrigation and Drip Irrigation for Tomato crop. *International Journal of Computer Engineering In Research Trends*, 4(11), 493-499.
21. Kumar S., Choudhary M.K. and Nayak T.R. (2017). Groundwater Modelling in Bina River Basin, India using VISUAL MODFLOW. *International Journal of Scientific Research and Development*, 5(5).
22. Kumar, S., Sahu, M.K., Choudhary, M.K. and Nayak, T.R. (2018). Sustainable development of Groundwater: A case study of Begumganj block in Bina river basin of Madhya Pradesh, India. *Proceedings of 3rd GoGreen Summit at Manila*,

Philippine.

23. Kumar, S., Sahu, A.K., Kumar, M., Choudhary, M.K. and Nayak, T.R. (2018). Sustainable development of groundwater: A case study of Begamganj block in Bina River Basin of Madhya Pradesh, India. *International Journal of Recent Research Aspects*, 197-200.
24. Vishwakarma, A., Choudhary, M. K. and Chauhan, M. S. (2018). Runoff Simulation and Probability Analysis of Rainfall with Crop Planning. *Proceedings of International Conference on Hydraulics, Water Resources and Coastal Engineering (Hydro2018)*, NIT, Patna.
25. Sahu A. and Choudhary, M. K. (2018). Optimal Irrigation Planning of Chandora Project Using SAPWAT Model. *Proceedings of International Conference on Hydraulics, Water Resources and Coastal Engineering (Hydro2018)*, NIT, Patna.
26. Vishwakarma, A., Choudhary, M.K. and Chauhan, M.S. (2019). Non-Parametric Trend of Drought and Its Future Applicability: A Case Study of Sagar Station. *Proceedings of International Conference on Recent Trends and Innovations in Civil Engineering, Medi-Caps University, Indore*.
27. Parihar, S.S., Prashant and Choudhary, M.K. (2019). Smart Monitoring Assessment in Real Time for Dams. *National Conference on Recent Developments in Civil Engineering Infrastructure (RDCI-2019)*, MANIT, Bhopal.
28. Carpenter, A., Kumar, S. and Choudhary, M.K. (2019). A Review on Decision Support Systems for Water Resources Management. *National Conference on Recent Developments in Civil Engineering Infrastructure (RDCI-2019)*, MANIT, Bhopal.
29. Vishwakarma, A., Choudhary, M. K. and Chauhan, M. S. (2020). Applicability of SPI and RDI for forthcoming drought events: a non-parametric trend and one way ANOVA approach. *Journal of water and climate change*, 11(S1), 18–28. DOI: <https://doi.org/10.2166/wcc.2020.042>.
30. Vishwakarma, A., Choudhary, M. K. and Chauhan, M. S. (2020). Assessment of the performance of CMIP5 and CORDEX-SA models over the drought-prone Bundelkhand region, India. *Journal of Water and Climate Change*, 11(S1), 133–144. DOI: <https://doi.org/10.2166/wcc.2020.177>.
31. Vishwakarma, A., Choudhary, M. K. and Chauhan, M. S. (2020). Trend Analysis of Meteorological Variables and Drought Indices in Bundelkhand Region Using the Non-Parametric Approach. *Russian Meteorology and Hydrology*, 45(12), 870-875. DOI: <https://doi.org/10.3103/S1068373920120080>.
32. Vishwakarma, A., Choudhary, M. K., and Chauhan, M. S. (2021). Non-parametric Trend of Drought and Its Future Applicability: A Case Study of Sagar Station. In *Recent Trends in Civil Engineering* (pp. 939-944). Springer, Singapore.

https://doi.org/10.1007/978-981-15-5195-6_68.

33. Vishwakarma, A., Choudhary, M. K., & Chauhan, M. S. (2021). Runoff Simulation and Irrigation Water Requirement for Barman Command. In *Water Resources Management and Reservoir Operation* (pp. 227-240). Springer, Cham. https://doi.org/10.1007/978-3-030-79400-2_19.
34. Satya Raj, B., Choudhary, M.K. and Thomas, T. (2021). Groundwater Flow Modelling of Hoshangabad District in Narmada River Basin Using VISUAL MODFLOW FLEX – A Review. *Proceedings of International Conference on Water and Environment (ICWE-2021), MANIT, Bhopal*.
35. Mahammad Rafi, C., Choudhary, M.K. and Thomas, T. (2021). Impact of Climate Change on Runoff using SWAT – A Review. *Proceedings of International Conference on Water and Environment (ICWE-2021), MANIT, Bhopal*.
36. Sharma, J., Choudhary, M.K. and Jaiswal, R.K. (2021). Effect of Climate Change on Crop Water Requirement using CROPWAT – A Review. *Proceedings of International Conference on Water and Environment (ICWE-2021), MANIT, Bhopal*.
37. Tiwari, M., Choudhary, M.K. and Khare, R. (2021). Simulation of Runoff on Daily Basis in Upper Tapti Basin Using SWAT Model. *Proceedings of International Conference on Water and Environment (ICWE-2021), MANIT, Bhopal*.
38. Singh, P. and Choudhary, M.K. (2021). Dam Break – A Review. *Proceedings of International Conference on Water and Environment (ICWE-2021), MANIT, Bhopal*.
39. Badika, P. and Choudhary, M.K. (2021). Ground Water Quality Assessment for Irrigation and Impact of Poor Irrigation Water. *Proceedings of International Conference on Water and Environment (ICWE-2021), MANIT, Bhopal*.
40. Surkar, P.P. and Choudhary, M.K. (2021). Review on understanding reclamation of salt affected soil in India. *Proceedings of International conference (online) on Recent Advances in Civil Engineering for Sustainable Development (RACESD-2021), MANIT, Bhopal*.
41. Surkar, P.P. and Choudhary, M.K. (2021). Evaluation of irrigation schemes using performance indicators. *Proceedings of International conference on Water and Environment, MANIT, Bhopal*.
42. Surkar, P.P. and Choudhary, M.K. (2021). Climate change impact assessment on water resources – A review. *Proceedings of International Conference on Hydraulics, Water Resources and Coastal Engineering (Hydro2021), SVNIT, Surat*.
43. Sharma, J., Choudhary, M.K. and Jaiswal, R.K. (2021). Assessment of crop water requirement in the context of climate change. *Proceedings of International Conference on Hydraulics, Water Resources and Coastal Engineering (Hydro2021),*

SVNIT, Surat.

44. Sharma A., Khare K., Choudhary, M.K. and Prasad V. (2021). Hydrologic impact evaluation of land use and land cover change in subbasins of Tapi River, using SWAT model. *Proceedings of International Conference on Hydraulics, Water Resources and Coastal Engineering (Hydro2021)*, SVNIT, Surat.
45. Sharma A., Khare K. and Choudhary, M.K. (2021). Development of decision support system for Bina river basin using WEAP model. *Proceedings of International Conference on Recent Advances in Civil Engineering, NIT, Silchar*.
46. Sasanapuri S.K., Choudhary, M.K. and Nayak T.R. (2021). Two-dimensional flood inundation mapping under overtopping failure of Umrar dam effect of terrain resolution and sensitivity analysis. *Proceedings of International Conference on Hydraulics, Water Resources and Coastal Engineering (Hydro2021)*, SVNIT, Surat.
47. Vishwakarma A., Choudhary M.K. and Chauhan M.S. (2022). Non-parametric trend and the validity of a newly developed drought indicator for agricultural application over the central India region. *Arabian Journal of Geosciences*, Vol.: 15(4), Year: 2022, Page No.: 1-13, <https://doi.org/10.1007/s12517-022-09631-0>.
48. Carpenter A. and Choudhary M.K. (2022). Water Demand and Supply Analysis using WEAP Model for Veda River Basin Madhya Pradesh (Nimar Region), India. *Trends in Sciences*, Vol.: 19(6), Year: 2022, Page No.: 3050, <https://doi.org/10.48048/tis.2022.3050>
49. Vishwakarma, A., **Choudhary, M. K.**, & Chauhan, M. S. (2022). Assessment of CMIP5 and CORDEX-SA experiments in representing multiscale temperature climatology over central India. *Water Practice and Technology* 17(9), 1923-1936.
50. Sruthakeerthi, P. and Choudhary, M.K. (2022). Soft Computing Techniques Hybridised with Swarm Intelligence Metaheuristic Algorithms for Estimating Reference Evapotranspiration – a Review. *27th International Conference on Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO 2022 INTERNATIONAL) December 22 -24, 2022*.
51. Sharma A., Khare K., Choudhary, M.K. and Prasad V. (2022). Hydrologic Impact Evaluation of Land Use and Land Cover Change in Subbasins of Tapi River, using SWAT Model. *27th International Conference on Hydraulics, Water Resources, Environmental and Coastal Engineering (HYDRO 2022 INTERNATIONAL) December 22 -24, 2022*.
52. Sharma A., Khare K. and Choudhary, M.K. (2023). Assessment of spatio-temporal variation of water balance components by simulating the hydrological processes of a large complex watershed. *Environ Earth Sci* 82, 127 (2023).

53. Kumar S., Choudhary M.K. and Thomas T. (2023). A Review of Models for Soil Erosion and Sediment Yield. *Proceedings of the 28th Conference on Hydraulics, Water Resources, River and Coastal Engineering (HYDRO 2023 INTERNATIONAL)*, Organized by the Department of Civil Engineering, National Institute of Technology, Warangal, under the aegis of The Indian Society for Hydraulics (ISH), Pune, during December 21-23, 2023. **[Published in Scopus index proceedings]**
54. Kumar S., Choudhary M.K. and Thomas T. (2024). Geo-Informatics Techniques for Detection of Soil Erosion-Prone Areas. *Proceedings of the International Conference on Future of Water Resources (ICFWR) 2024 jointly organized by Indian Water Resources Society (IWRs) and Department of WRD&M, IT Roorkee from 18-20 January 2024*
55. Kumar S., Choudhary M.K. and Thomas T. (2024). Trend Analysis of Meteorological Variables (Precipitation & Temperature) for Upper Narmada River Sub-Basin, India. *Proceedings of the "International Conference on Sustainable Energy & Environment (1CSEE 2024)" organized by the Department of Chemical Engineering, Maulana Azad National Institute of Technology, Bhopal from 23-25th February 2024.*
56. Kumar S., Choudhary M.K. and Thomas T. (2024). Assessing the Synergistic Effects of LULC and Climate Variability on Soil Erosion and Sediment yield: A Comprehensive Analysis and Modelling Approach. *Proceedings of the ROORKEE WATER CONCLAVE organized jointly by Indian Institute of Technology Roorkee and National institute of Hydrology, Roorkee during March 03-06, 2024, at IIT Roorkee (Roorkee Water Conclave 2024)*
57. Kumar S., Choudhary M.K. and Thomas T. (2024). Assessment of Landslide Susceptibility Map in the Jaintia Hill District Using Remote Sensing and GIS. *Proceedings of the European Geosciences Union (EGU) General Assembly 2024, 14–19 Apr 2024, in Vienna, Austria*
58. Kumar S., Choudhary M.K. and Thomas T. (2024). Comparative Analysis of GCM Selection Approaches for Climate Change Impact Assessment in India. *Proceedings of the 29th Conference on Hydraulics, Water Resources, River and Coastal Engineering (HYDRO 2024 INTERNATIONAL)*, Organized by the CWPRS Pune, under the aegis of The Indian Society for Hydraulics (ISH), Pune, during December 18-20, 2024. **[Published in Scopus index proceedings]**
59. Kumar S., Choudhary M.K. and Thomas T. (2025). Optimizing GCM Selection for Climate Change Impact Assessment in Indian River Basins: A Case Study of Manjira River. *Proceedings of the International Perspectives in Water and Environment Conference (IPWE-2025)*, Organized by the ASCE and MPWRDM, during January 08-10, 2025, at Bhopal. **[Published in ASCE proceedings]**

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61. Badika P., Choudhary M.K., Nayak T.R., Jaiswal R. Agarwal A. (2024). Projected water availability in the Tawa River Basin in changing climate. *3rd Roorkee Water Conclave (Responsible water management and circular Economy)*
62. Tiwari S.,and M.K.Choudhary (2024) Drought Monitoring: A Comprehensive Review of Indices, Methods and Advanced Technologies for Prediction. *International Conference on Future of Water Resources, IIT Roorkee*
63. Dadsena D. K., Choudhary M K and Thawait A. K (2024) Harnessing Artificial Intelligence for Groundwater Monitoring: A Comprehensive Review. *International Conference on Future of Water Resources, IIT Roorkee*
64. Ankur Sharma, P P Surkar, Ruchi Khare and M. K. Choudhary (2024) Quantifying the irrigation requirements for major crops under the influence of Climate Change in a Semi-arid Region. *Water Resources Management*, 1-16,
65. P Badika, MK Choudhary, T Nayak, RK Jaiswal, A Agarwal (2024) Projected water availability in the Tawa River Basin India in changing climate. *Groundwater for Sustainable Development* 25, 101176
66. Ankur Vishwakarma, M. K. Choudhary and M. S. Chauhan (2024) Impact of projected climate variability on agricultural water demand of key crops in drought-prone central India region. *Journal of Water and Climate Change*, 15 (9), 4328-4342
67. Kumar, S., Choudhary, M.K. & Thomas, T. (2024). A hybrid technique to enhance the rainfall-runoff prediction of physical and data-driven model: a case study of Upper Narmada River Sub-basin, India. *Scientific Report* 14, 26263. **[SCIE-Q1]**

Book Chapters	1. Choudhury, M. K., and Nayak, T. (2003). Estimation of soil erosion in Sagar Lake catchment of Central India. In V. P. Singh & R. N. Yadava (Eds.), <i>Watershed Hydrology</i> (Vol. 15, pp. 387-392). ISBN: 81-7764-547-1 2. Vishwakarma, A., Choudhary, M. K., and Chauhan, M. S. (2021). Non-parametric Trend of Drought and Its Future Applicability: A Case Study of Sagar Station. In <i>Recent Trends in Civil Engineering</i> (pp. 939-944). Springer, Singapore. https://doi.org/10.1007/978-981-15-5195-6_68. 3. Vishwakarma, A., Choudhary, M. K., & Chauhan, M. S. (2021). Runoff Simulation and Irrigation Water Requirement for Barman Command. In <i>Water Resources Management and Reservoir Operation</i> (pp. 227-240). Springer, Cham. https://doi.org/10.1007/978-3-030-79400-2_19. 4. Sharma, A., Khare, R., Choudhary, M. K., and Prasad V. (2021). Hydrologic Impact Evaluation of Land Use and Land Cover Change in Subbasins of Tapi River Usingswat Model. <i>International Conference on Hydraulics, Water Resources and Coastal Engineering. Singapore: Springer Nature Singapore</i> 5. Surkar P. P, and Choudhary M. K. (2023). Climate Change Impact Assessment on Water Resources – A Review. <i>Climate Change Impact on Water Resources: Proceedings of 26th International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO 2021)</i>. Vol. 313. Springer Nature, 6. Sharma, J., Choudhary, M. K., and Jaiswal R.K. (2023). Assessment Of Crop Requirements in the Context of Climate Change. <i>Climate Change Impact on Water Resources: Proceedings of 26th International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO 2021)</i>. Vol. 313. Springer Nature. 7. Kumar, S., Choudhary, M.K., Thomas, T. (2025). A Review of Models for Soil Erosion and Sediment Yield. In: Pandey, M., Jayakumar, K.V., Pal, M., Singh, V.P. (eds) <i>Soft Computing and Geospatial Techniques in Water Resources Engineering</i>. HYDRO 2023. Lecture Notes in Civil Engineering, vol 397. Springer, Singapore. https://doi.org/10.1007/978-981-97-7467-8_22
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