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| Nota di contenuto | Chapter 1: Oxygen Concentration Dynamics in Rivers: Identifying and Replenishing Low Oxygen Zones in Indian Rivers Using Sensor-Based Approach and Ozonizer Sustainability -- Chapter 2: Influence of microplastics on the hydraulic conductivity of riverbeds -- Chapter 3: Evolving streamflow extremes in a changing climate for a peninsular river basin -- Chapter 4: What controls the runoff generation in river basins? -- Chapter 5: Geoinformatics-based morphologic analysis of the Ramis river, an endorheic andean river -- Chapter 6: Exploring the Spatiotemporal Impacts of Riparian Restoration on Streamflow Dynamics in the North Eastern Himalayan Rivers -- Chapter 7: Application of Machine Learning and Deep Learning Techniques in Rainfall-Runoff Modelling for Sustainable Water Management in the Bardha Watershed, India -- Chapter 8: Occurrence of elevated sedimentary iron and arsenic along the Beas River and implications for |

arsenic enrichment in the Sutlej-Indus River basin in the north-westernIndia -- Chapter 9: Geomorphic Controls on Arsenic Mobility and Enrichment in the Hooghly Riverbanks, West Bengal, India -- Chapter 10: Chracteristics of Large-scale and Spatio-temporal Extreme Rain Events across Northwest Himalaya -- Chapter 11: Hydrological and morphlogical considerations for deciding location, waterway, afflux and scour in river bridges -- Chapter 12: Quantifying Changes in Downstream Flow Characteristics in Sinuous Channels Due to the Series of Sand Mining Pits -- Chapter 13: Channel Planform Dynamics of Upper Krishna River Sub-Basin: Remote Sensing and GIS Analysis Approach -- Chapter 14: Sediment Connectivity and River Recovery: Application of Pertinent River Science Concepts in Himalayan Catchments -- Chapter 15: Erosion and Accretion in the Netravathi River Stretch: Spatiotemporal Analysis Using Geospatial Approach -- Chapter 16: Higher order correlations at the bend apex in asymmetric alluvial sinuous channel -- Chapter 17: Study River Dynamics: Backwater Effect inthe Upstream of Hirakund Dam in Mahanadi River -- Chapter 18: Critical linkages between geomorphology and ecology on a lowland river floodplain -- Chapter 19: Tidal Morpho-dynamics simulation of Hugli Estuary using TUFLOW FV -- Chapter 20: Flood inundation mapping of Krishnaraja Nagar, Mysore, using Sentinel-1 SAR images -- Chapter 21: River Monitoring Through Underwater Remotely Operated Vehicle -- Chapter 22: Evaluation of machine learning methods in glaciers snow line -- Chapter 23: River Discharge Measurement using Image Velocimetry -- Chapter 24: Erosion modelling of the Beki river Assam using RUSLE -- Chapter 25: Impact of LULC change from forests to rubber plantations on ecosystem hydrological services: an empirical study.

Sommario/riassunto

This book presents the select proceedings of the 3rd International Conference on River Corridor Research and Management (RCRM 2023). It describes various topics on fluvio-hydro-ecological processes of river systems. The topics covered include river dynamics and morphological changes, river health and ecological aspects and satellite remote sensing for river corridor studies. The book also discusses the morphological behavior of gravel and sand-bed rivers, hydrological and hydraulics modeling and other important aspects of riverine ecology. The book will be a valuable reference for researchers and professionals working in the areas of river science.