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Nota di contenuto	Identification of the parameters to estimate the capillary rise from shallow groundwater table using field crop experiments -- Study of Groundwater Table fluctuation in the command area of Bhagwanpur Distributary of the Eastern Gandak Project -- Assessment of heavy metals in sediments from exploratory wells for riverbank filtration sites impacted by extreme environmental conditions using principal component analysis -- Simulation of re-aeration coefficient using ANFIS and ARIMA models -- Identification of unknown number of

clandestine groundwater pollution source locations and their release flux histories - by Anirban Chakraborty and Om Prakash. .

Sommario/riassunto

This book deals with topics of current interest, such as climate change, floods, drought, and hydrological extremes. The impact of climate change on water resources is drawing worldwide attention these days, for water resources in many countries are already stressed and climate change along with burgeoning population, rising standard of living, and increasing demand are adding to the stress. Further, river basins are becoming less resilient to climatic vagaries. Fundamental to addressing these issues is hydrological modelling which is covered in these books. Further, integrated water resources management is vital to ensure water and food security. Integral to the management is groundwater and solute transport. The books encompass tools that will be useful to mitigate the adverse consequences of natural disasters. This book provides many new and innovative methods to assess groundwater and estimate water pollution. Groundwater recharge, solute transport, ground water modelling are some of the important variable used to estimate the groundwater movement, hydraulic gradient and pollution movement. The water quality is another important variable of river Ganga and its tributaries in India and other rivers over the globe. .
