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Nota di contenuto	Trend analyses of seasonal mean temperature Series pertaining to Tapi river basin, using monthly data -- . Dry and wet spell characterization of Naini river basin, western Maharashtra, India -- Assessment of Climate Change on Crop Water Requirement in Tandula Command of Chhattisgarh (India) -- Impact of climate change on hydrological regime of Narmada river basin -- Climate change impacts on water resource in Ethiopia -- Spatio-temporal trend analysis of long term IMD gridded precipitation in Godavari river basin, India -- Forecasting reference evapotranspiration using artificial neural network for Nagpur Region -- Assessment of extremes using time varying downscaling model -- Assessment of impact of land use land cover and climate change on quality of river using water quality index -- Assessment of tail behavior of probability distributions of daily precipitation data over India -- Probabilistic prediction of monthly streamflow using graphical

modeling approach. .

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## Sommario/riassunto

This book provides insights and a capacity to understand the climate change phenomenon, its impact on water resources, and possible remedial measures. The impact of climate change on water resources is a global issue and cause for concern. Water resources in many countries are extremely stressed, and climate change along with burgeoning populations, the rise in living standards, and increasing demand on resources are factors which serve to exacerbate this stress. The chapters provide information on tools that will be useful to mitigate the adverse consequences of natural disasters. Fundamental to addressing these issues is hydrological modelling which is discussed in this book and ways to combat climate change as an important aspect of water resource management.

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