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As climate change takes hold, there is an ever-growing need to develop and apply strategies that optimize the use of natural resources, both on land and in water. This book covers a huge range of strategies that can be applied to various sectors, from forests to flood control. Its aim, as with resource management itself, is to combine economics, policy and science to help rehabilitate and preserve our natural resources.

Beginning with papers on carbon sequestration, including the practice of artificial desertification, the topics move on to cover the use of distributed modeling and neural networks in estimating water availability and distribution. Further chapters look at uncertainty analysis applied to the spatial variation of hydrologic resources, and finally the book covers attempts at estimating meteorological parameters in the context of hydrological variables such as evapo-transpiration from stream flow.

Within the next decade, the effects of climate change will be severe, and felt by ordinary human beings. This book proposes a raft of measures that can mitigate, if not reverse, the impact of global warming on the resources we have all come to depend on.

Key themes: climate change, water availability, neuro-genetic models, carbon sequestration, biomass carbon, remote sensing, distributed hydrologic simulation

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