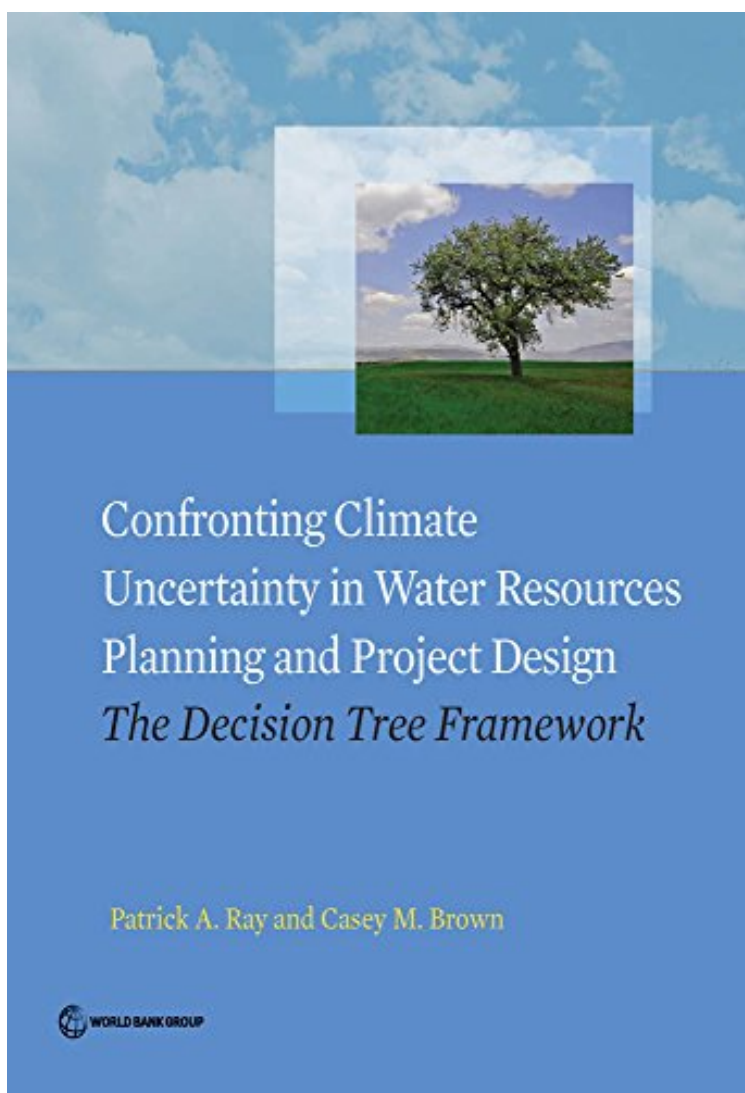


(Library ebook) Confronting Climate Uncertainty in Water Resources Planning and Project Design: The Decision Tree Framework

Confronting Climate Uncertainty in Water Resources Planning and Project Design: The Decision Tree Framework

Patrick A. Ray, Casey M. Brown
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Patrick A. Ray, Casey M. Brown : Confronting Climate Uncertainty in Water Resources Planning and Project Design: The Decision Tree Framework before purchasing it in order to gage whether or not it would be worth my time, and all praised Confronting Climate Uncertainty in Water Resources Planning and Project Design: The Decision Tree Framework:

Confronting Climate Uncertainty in Water Resources Planning and Project Design describes an approach to facing two fundamental and unavoidable issues brought about by climate change uncertainty in water resources planning and project design. The first is a risk assessment problem. The second relates to risk management. This book provides background on the risks relevant in water systems planning, the different approaches to scenario definition in water system planning, and an introduction to the decision-scaling methodology upon which the decision tree is based. The decision tree is described as a scientifically defensible, repeatable, direct and clear method for demonstrating the robustness of a project to climate change. While applicable to all water resources projects, it allocates effort to projects in a way that is consistent with their potential sensitivity to climate risk. The process was designed to be hierarchical, with different stages or phases of analysis triggered based on the findings of the previous phase. An application example is provided followed by a descriptions of some of the tools available for decision making under uncertainty and methods available for climate risk management. The tool was designed for the World Bank but can be applicable in other scenarios where similar challenges arise.