



Water Resources Systems Planning And Management

Author : Sharad K Jain V P Singh / **Category** : Science / **Total Pages** : 882 pages

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Summary : Free water resources systems planning and management pdf download - this book is divided into four parts the first part preliminaries begins by introducing the basic theme of the book it provides an overview of the current status of water resources utilization the likely scenario of future demands and advantages and disadvantages of systems techniques an understanding of how the hydrological data are measured and processed is important before undertaking any analysis the discussion is extended to emerging techniques such as remote sensing gis artificial neural networks and expert systems the statistical tools for data analysis including commonly used probability distributions parameter estimation regression and correlation frequency analysis and time-series analysis are discussed in a separate chapter part 2 decision making is a bouquet of techniques organized in 4 chapters after discussing optimization and simulation the techniques of economic analysis are covered recently environmental and social aspects and rehabilitation and resettlement of project-affected people have come to occupy a central stage in water resources management and any good book is incomplete unless these topics are adequately covered the concept of rational decision making along with risk reliability and uncertainty aspects form subject matter of a chapter with these analytical tools the practitioner is well equipped to take a rational decision for water resources utilization part 3 deals with water resources planning and development this part discusses the concepts of planning the planning process integrated planning public involvement and reservoir sizing the last part focuses on systems operation and management after a resource is developed it is essential to manage it in the best possible way many dams around the world are losing some storage capacity every year due to sedimentation and therefore the assessment and management of reservoir sedimentation is described in details no analysis of water resources systems is complete without consideration of water quality a river basin is the natural unit in which water occurs the final chapter discusses various issues related to holistic management of a river basin

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