



Hydrology and Water Resources Engineering

K. C. Patra

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The ever increasing demand for the supply of fresh water has given rise to the need for optimal management of water resources worldwide. Hydrology plays the central role in the development and management of water resources and therefore, the protection of the environment. Hydrology forms a part of many diverse fields such as agriculture, civil engineering, environmental engineering, geology and earth sciences, as well as forestry and meteorology.

Written specifically for professionals dealing with water resources planning, development, and management, Hydrology and Water Resources focuses on surface water hydrology. It covers hydrologic processes, analysis, and design. The book illustrates the terms of the hydrologic cycle and discusses the possible methods of their estimation. The author underscores the role of statistics and probabilities and covers precipitation, infiltration, evaporation, stream flow-runoff estimation, evapotranspiration, hydrograph, flood estimation and routing, reservoir, sedimentation, and more.

The author emphasizes the applicability of the text materials to real-world situations. Using data from the field, a large number of hydrologic design problems have been worked out for each chapter to illustrate the analysis and design procedures. Whether a student, researcher, or working in the field, you need a reference written in a simple, lucid style. You need a resource with authoritative information. You need Hydrology and Water Resources Engineering.

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