



Hydrology and Hydraulic Systems

By Ram S. Gupta

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While retaining the strengths of the First Edition, this thoroughly revised edition of Hydrology and Hydraulic Systems offers a complete treatment of the quantitative elements involved in the development of water resources. The Second Edition includes fundamental, up-to-date coverage of applications and designs, the development and monitoring of groundwater, kinematic and contaminant hydrology, evapotranspiration, the design of water supply projects, the theory of leaky aquifers, probable maximum precipitation, and flood-routing procedures. The text's broad coverage makes it ideal for a variety of courses on hydrology, hydrologic systems, and water resources management. Outstanding features of the Second Edition include: 280 illustrations and 175 tables; 225 fully solved example problems integrated within the text and 500 end-of-chapter problems; detailed treatment of theory and applications of groundwater flow for both steady- and unsteady-state conditions; application of EPA-recommended statistical procedures to groundwater monitoring; detailed presentation of field practices of hydrologic investigations and analytical procedures for data assessment; systematic treatment of various estimation techniques of surface water; analysis and design of basic hydraulic structures; presentation of contaminant hydrology as it relates to surface water, groundwater, and unsaturated media; and complete treatment of storm, sanitary, agriculture, and urban drainage systems.

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