



# Irrigation Engineering & Hydraulic Structures

*S.R. Sahasrabudhe*

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## **Irrigation Engineering & Hydraulic Structures S.R. Sahasrabudhe**

Table of contents: part-i: irrigation engineering and management of irrigation water introduction principles of water management-soils-water-crops and their relationship (i) soils-water-crops and their relationship (ii) (water requirements of crops) flow or canal irrigation design of irrigation canals (on alluvial and non-alluvial soils) construction and maintenance of irrigation canals losses in canals and lining of irrigation canals (design of lined canals) methods of irrigation water-logging and its remedies (including drainage and conjunctive use of surface and ground water) irrigation water management tank irrigation sprinkler irrigation micro irrigation (i) drip irrigation micro irrigation (ii) investigation and preparation of irrigation projects important irrigation projects (constructed after independence) part-ii: ground water engineering and irrigation by wells fundamentals of ground water hydraulics of wells tube well irrigation open well irrigation techniques of ground water development ground water quality part-iii: head works and canal structures rivers their behavior and training canal head-works weirs on permeable foundations canal regulators falls (drops) and flumes cross drainage works structures for silt control outlets and tail clusters part-iv: engineering hydrology elements of hydrology precipitation and its measurement water losses (interception, infiltration and evaporation) stream gauging runoff estimation of peak flow and flood routing part-v: reservoirs and storage dams reservoirs and their regulation types of dams and foundation treatment gravity dams arch and buttress dams earth and rockfill dams spillways, sluices and crest gates (including energy dissipaters) hydro-power stations appendix index

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