

# Surface Water Hydrology

## Learning Objectives

- To be able to quantify watershed attributes (7.1)
- To be able to describe the role of atmospheric and ocean circulation in hydrology and the formation of precipitation (7.1)
- To be able to quantify the variability of precipitation, calculate area average precipitation and determine design storm amounts (7.2)
- To be able to calculate evaporation from an open water surface (7.3)

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**M. Gordon Wolman, H. C. Riggs**

## **Surface Water Hydrology:**

*Ground and Surface Water Hydrology* Larry W. Mays, 2011-11-09 From best selling and well respected author Larry Mays *Ground and Surface Water Hydrology* provides balanced coverage of surface and groundwater hydrology. The text includes current and emerging topics such as sustainability, climate change, GIS and new models and data sources so readers will gain a complete and current understanding of hydrology. This book may be used for at least three different undergraduate courses including 1 First course with an emphasis in surface water hydrology, 2 First course with emphasis in groundwater hydrology, 3 First course in hydrology with similar emphasis on ground and surface water hydrology. This book is also a valuable reference for practicing civil engineers, hydrologists, environmental engineers and geologists.

**Ground and Surface Water Hydrology** Petre Kozel, 2016 Surface water hydrology is a field that encompasses all surface waters of the globe overland flows, rivers, lakes, wetlands, estuaries, oceans, etc. This is a subset of the hydrologic cycle that does not include atmospheric and ground waters. Surface water hydrology relates the dynamics of flow in surface water systems, rivers, canals, streams, lakes, ponds, wetlands, marshes, arroyos, oceans, etc. Ground water supplies are obtained from aquifers which are subsurface units of rock and unconsolidated sediments capable of yielding water in usable quantities to wells and springs. The hydrologic characteristics of aquifers and natural chemistry of ground water determine the availability and suitability of ground water resources for specific uses. Ground water is the part of precipitation that enters the ground and percolates downward through unconsolidated materials and openings in bedrock until it reaches the water table. The water table is the surface below which all openings in the rock or unconsolidated materials are filled with water. Water entering this zone of saturation is called recharge. Ground water in response to gravity moves from areas of recharge to areas of discharge. In a general way the configuration of the water table approximates the overlying topography. In valleys and depressions where the land surface intersects the water table, water is discharged from the ground water system to become part of the surface water system. The interaction between ground water and surface water can moderate seasonal water level fluctuations in both systems. During dry periods, base flow or ground water discharge to streams can help maintain minimum stream flows. Conversely, during flood stages, surface water can recharge the ground water system by vertical recharge on the water-covered flood plain and bank storage through streambed sediments. The net effect of ground water recharge is a reduction in flood peaks and replenishment of available ground water supplies. *Ground and Surface Water Hydrology* covers fundamentals of subsurface flow and transport, emphasizing the role of groundwater in the hydrologic cycle, the relation of groundwater flow to geologic structure and the management of contaminated groundwater.

**System-Theoretical Modelling in Surface Water Hydrology** Alexander Läpple, 2012-12-06 Modelling of hydrological rainfall runoff processes is facilitated by the application of the system-theoretical approach to linear, nonlinear and stochastic models. To this purpose the variables involved in methods for determining areal precipitation and baseflow separation are discussed. The convolution

theorem in the theory of linear systems and the mathematical transform technique Laplace Z transformation are used to identify characteristics of the watershed and simulate hydrological processes To support the calculation of model output functions computer programs are included in the text This volume is suitable as a text for hydrology courses at universities or engineering academies

**Surface Water Hydrology** United States. Great Lakes Basin Commission. Surface Water Hydrology Work Group,1975 Lecture Notes Subject 2. Surface Water Hydrology ; General Outline L. Rákóczi,K. Szesztay,1970

Surface Water Hydrology M. Gordon Wolman,H. C. Riggs,1990 Covers influences of the atmosphere and of land and vegetation on stream flow temporal and spatial variability of stream flow with separate chapters on floods and on low flow and hydrologic drought snow and ice the frozen components of the hydrosphere the hydrology of lakes and wetlands hydrogeochemistry of rivers and lakes the aquatic biota sediment movement and storage the riverscape for selected North American rivers and the influence of Man on hydrologic systems Accompanying color plates show histograms of river water chemistry runoff and flow regimes and the distribution of precipitation minus evaporation for North America

**Surface water hydrology** L. Rákóczi,M. Erdélyi,K. Szesztay,1970 **Ground-water Hydrology and Hydraulics** David B. McWhorter,Daniel K. Sunada,1977 Concepts and Models in Groundwater Hydrology Patrick A. Domenico,1972

Presentando las ideas principales acerca de la hidrologia de las aguas subterraneas como una entidad ordenada mas que como una colección de hechos y formulas se recogen varios modelos y conceptos hidrologicos agrupados logicamente en base de los principios fisicos y matematicos

**Ground Water Hydrology** David Keith Todd,1980-10-14 Occurrence of groundwater Groundwater movement Groundwater and well hydraulics Water wells Groundwater levels and environmental influences Quality of groundwater Pollution of groundwater Management of groundwater Groundwater modeling techniques Surface investigations of groundwater Subsurface investigations of groundwater Artificial recharge of groundwater Saline water intrusion in aquifers

Surface Water Hydrology Rákóczi László,1968 Fundamentals of Surface Water Hydrology ,1972

**Applied Ground-water Hydrology and Well Hydraulics** Michael Kasenow,2001 **Surface Water Hydrology** L.. Rákóczi,Károly Szesztay,1968 Surface Water Hydrology (general Outline) ; Lecture Notes Subject 2 L.

Rakocsi,K. Szesztay,1968 Basic Ground-water Hydrology Ralph C. Heath,2004 **Surface Water Hydrology** L. RAKOCZI,1970 Mathematical Models for Surface Water Hydrology Tito A. Ciriani,Ugo Maione,James R. Wallis,1976

Surface-water Hydrology and Runoff Simulations for Three Basins in Pierce County, Washington Mark C. Mastin,1996

**Deterministic Surface Water Hydrology** B. C. Yen,1983

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