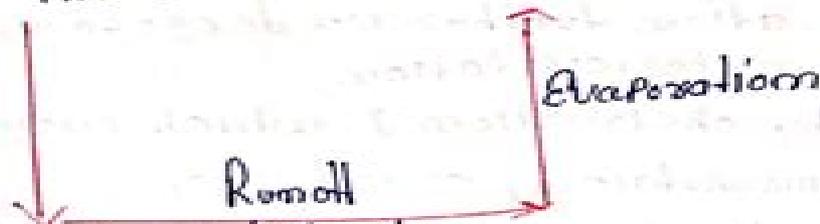


7/Jan/21

**HYDROLOGY** it is the Science of water.

— it deals with occurrence, circulation and distribution of water of the Earth and atmosphere

Precipitation  
{ Rain, Snow  
Hail etc }



It is further classified into two

(a) Scientific Hydrology : it is the study of water concerned with academic aspects i.e. records of past data

(b) Engineering Hydrology OR Applied Hydrology :

Study of water concerned with engineering application of sources of water, water process i.e. precipitation, evaporation, transpiration, infiltration etc.

— in order to understand occurrence, circulation and storage of water, hydrological cycle or water cycle can be analysed

— The precipitation and evaporation continues forever hence a balance is maintained b/w the two, which can be understood from water cycle

→ Since it is the continuous process it is non-startling point, end point or point at which it is paused

— water in oceans vapourises upwards and forms clouds, which under condensation

# Engineering Hydrology Lecture Notes

**Rosina Ehmann**



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**Engineering hydrology. Ensemble of lecture notes and class handouts developed since 1977. Prepared for instruction in course CE522. Interim Report FY 1987-1988** H J. Morel-Seytoux, 1987

Engineering Hydrology of Arid and Semi-Arid Regions Mostafa M. Soliman, 2010-06-23 The natural scarcity of water in arid and semiarid regions aggravated by man made factors makes it difficult to achieve a reliable water resources supply Communities in these areas pay the price for thousands of years of water manipulation Presenting important insight into the complexities of arid region hydrology

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**Engineering Hydrology** Arlen Feldman, 1987

**Water Resources Systems Planning and Management** Sharad K. Jain, V.P. Singh, 2023-11-25

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Modern Land Drainage Lambert K. Smedema, Willem F. Vlotman, David Rycroft, 2004-08-15 Fully renewed and extended this edition is a valuable source of information for anyone involved in drainage engineering and management It provides new theories technologies knowledge and experiences in combination with traditional land development practices in the humid temperature zone Aspects covered include management and maintenance drainage

application and design and adverse impacts on the environment Intended as both a handbook and a textbook this work is of particular value to university students as well as professionals within drainage development engineering and management

**Precipitation Records and Flood-producing Storms in Cheyenne, Wyoming** Juli B. Lindner-Lunsford,1988

Proceedings of Stormwater and Water Quality Model Users Group Meeting, October 3-4, 1988, Denver, Colorado James C. Y. Guo,Ben Urbonas,Thomas O. Barnwell,1989 **Artificial Recharge of Groundwater** Takashi Asano,2016-01-22

Artificial Recharge of Groundwater focuses on artificial recharge of groundwater basins as a means to increase the natural supply of groundwater along with the technical issues involved Special emphasis is placed on the use of reclaimed municipal wastewater as a source for artificial recharge of groundwater This book is comprised of 26 chapters organized into five sections After reviewing the state of the art of artificial recharge of groundwater the discussion turns to the fundamental aspects of groundwater recharge including the role of artificial recharge in groundwater basin management recharge methods hydraulics monitoring and modeling The next section considers pretreatment processes for wastewater and renovation of wastewater with rapid infiltration land treatment systems and describes the health effects of wastewater reuse in groundwater recharge A number of artificial recharge operations using reclaimed wastewater are then highlighted focusing on cases in various countries including Israel Germany Poland Japan the Netherlands and the United States The remaining chapters look at the extent of contaminant removal by the soil system and the fate of micropollutants during groundwater recharge as well as the legal and economic aspects of groundwater recharge Research needs for groundwater quality management are also explored This monograph is written for civil and sanitary engineers agricultural engineers hydrologists environmental scientists and research scientists as well as public works officials consulting engineers agriculturalists industrialists and students at colleges and universities **Flood Control and Drainage Engineering, 3rd Edition** S.N. Ghosh,2006-07-06 Primarily written as course material on flood control and drainage engineering for advanced students of civil engineering this third edition is thoroughly revised It accommodates recent developments in remote sensing information technology and GIS technology New additional material deals with problems of flood forecasting flood plain prioritization and flood hazard zoning and engineering measures for flood control Drainage improvement is tackled with particular regard to salinity and coastal aquifer management from the ingress of sea water The book includes design problem solving and case studies making it practical and applications oriented The subject matter will be of considerable interest to civil engineers agricultural engineers architects and town planners as well as other government and non government organizations

**CIVL342 Hydrology Lecture Notes** George Kuczera,1992 Notes on Hydrology and the Application of Its Laws to the Problems of Hydraulic Engineering Daniel Webster Mead,1904 **Modeling of Rivers** Hsieh Wen Shen,1979 An Approach to Modeling a Stream Aquifer System for Conjunctive Management Chuan-Mian Zhang,1994

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