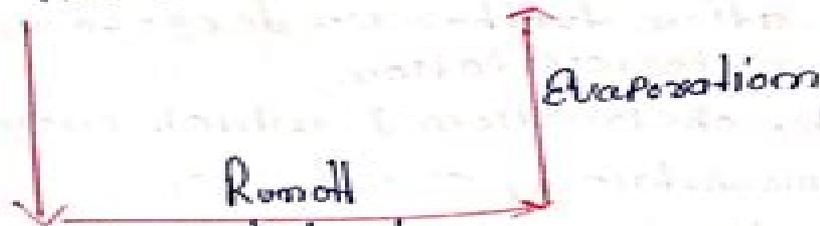


7/Jan/21

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

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Sharad K. Jain, V.P. Singh

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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

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Water Resources Systems Planning and Management Sharad K. Jain, V.P. Singh, 2023-11-25 Water Resources Systems Planning and Management Second Edition Volume 51 presents new and updated material including case studies examples and important updates on topics such as climate change and integrated water resources management Authored by two renowned experts in the field of water resources this text provides an overview of the current status of water resources utilization the likely scenario of future demands simulation and techniques of economic analysis concepts of planning the planning process integrated planning public involvement reservoir sizing and finally systems operation and management This book presents a comprehensive overview of the field that is relevant for students professors scholars researchers and consultants in the fields of Water Resources Civil Engineering Environmental Engineering and Hydrology Provides an overview of the current status of water resources utilization the likely scenario of future demands and advantages and disadvantages of systems techniques Includes numerous examples and real world case studies Discusses the concepts of planning the planning process integrated planning public involvement and reservoir sizing New to this edition Thoroughly updated content with an improved presentation new figures examples and case studies Includes comprehensive new coverage focusing on the impact of climate change and environmental flows All chapters are

updated with three brand new chapters Environmental flows and their assessment Climate change and its impacts on water management Integrated river basin planning and management Integrated Water Resources Management 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

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