

## Engineering Hydrology Lecture Notes

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### Engineering Hydrology Lecture Notes

1. Lifting and Cooling - Lifting of air mass to higher altitudes causes cooling of air. 2. Condensation - conversion of water vapor into liquid droplets. 3. Droplet Formation - Growth of droplets is required if the liquid water present in a cloud is to reach ground against the lifting mechanism of air.

### Engineering Hydrology Class Lectures and Notes ...

INTRODUCTION Groundwater is the water that occurs in a saturated zone of variable thickness and depth below the earth's surface. It is therefore the water beneath the earth's surface from which wells, springs, and groundwater runoff are

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Engineering Hydrology Class Lectures and Notes Engineering Hydrology Helps in the following ways: Hydrology is used to find out maximum probable flood at proposed sites e.g.. Dams. The variation of water production from catchments can be calculated and described by hydrology.

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Lecture notes files. LEC # TOPICS; 1: Course Introduction, Water Balance Equation : 2: Aquifers, Porosity, and Darcy's Law : 3: Hydraulic Head and Fluid Potential : 4: Continuity and Flow Nets : 5: Groundwater Flow Patterns : 6: Groundwater/Surface Water Interactions : 7: Transient Systems and Groundwater Storage : 8: Pump Test Analysis : 9

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### Engineering Hydrology Lecture Notes

Finding area of watershed/basin Method 1: Use planimeter around the boundary Method 2: Trace the basin and count area manually Method 3: Use of GIS package 1.2 Applications of Hydrology in Engineering Correct assessment of flows for hydropower, irrigation, drainage and water supply projects. Determination of maximum expected flow at dam, reservoir, spillway, bridges, culverts and city drainage system. Determination of minimum reservoir capacity sufficient to meet the hydropower, irrigation ...

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Lecture 1: Philosophy of mathematical models of watershed hydrology. Lecture 2: Philosophy of mathematical models of watershed hydrology (contd.) Module 3: Hydrologic Analysis. Lecture 1: Watershed and rainfall-runoff relationship. Lecture 2: Watershed and rainfall-runoff relationship (contd.)

### NPTEL :: Civil Engineering - Advanced Hydrology

Hydrology is an indispensable tool in planning and building hydraulic structures. Hydrology is used for city water supply design which is based on catchments area, amount of rainfall, dry period, storage capacity, runoff evaporation and transpiration.

### Water Resources Engineering - VSSUT

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LECTURE #5 HYDROLOGIC PROCESSES, PARAMETERS, AND CALIBRATION. 2of 35 THE HYDROLOGIC CYCLE. 3of 35 HYDROLOGY - HYDROLOGIC COMPONENTS Hydrologic Components: Rainfall or Snow Interception Depression storage Evapotranspiration Infiltration Surface storage Runoff Interflow Groundwater flow

### HYDROLOGIC PROCESSES, PARAMETERS, AND CALIBRATION

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