

# Hydrology & Water Resource Engineering

## Solved Problems on Hydrographs and Hydrological cycles

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### Overview of Presentation

- Estimation of Missing Rainfall Data
- optimum number of stations
- Minimum number of additional stations required
- Double ring- infiltrometer
- ☒ index determination
- Intensity, Frequency and Return Period
- Direct Surface runoff using unit hydrograph (Convolution approach)
- Changing unit duration of unit hydrograph using S-Hydrograph
- Unit Hydrograph
- Synthetic Unit Hydrograph
  - Snyder's Unit hydrograph
  - Nash Unit Hydrograph
  - Clark unit hydrograph
  - SCS-dimensionless unit hydrograph

# Engineering Hydrology Solved Problems

**Joacim Rocklöv**



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