

# INTRODUCTION TO IRRIGATION



Q. Why Irrigation is Required in India.

Ans :



- Every Crop Requires certain amount of water at regular interval throughout the growth period at desired time so that the crop may attain maturity.
- If in an area natural rainfall is both timely and sufficient then irrigation facilities are not required to develop.
- In a tropical country like India rainfall is neither sufficient nor timely therefore irrigation facilities are required to be developed.
- Water requirement of crop may not be fulfilled by natural rainfall, in such case also irrigation facilities are required to be developed, so that adequate amount of water may be supplied to the crops required for achieving max. cultivation.

## RICE

(Kharif Monsoon)  
(June - Sept)



## WHEAT

(Rabi Winter)  
(Nov - March)



Hence, irrigation may be defined as artificial application of water at desired interval for specific duration throughout the entire growth period of crop so as to attain full maturity.

Note : Classification of area based on deficiency of rainfall.

### ARID (Dry)

- These are the areas where for cultivation of any type of crop irrigation is must.

### Semi-arid { Semi-dry }

- These are the areas where cultivation of inferior crops can be done without irrigation.

# Irrigation Engineering Notes

**M Planty**



## **Irrigation Engineering Notes:**

*Irrigation Engineering Principles* Rick G. Allen,1991      *Irrigation Engineering Principles* Rick G. Allen,Utah State University. Department of Biological and Irrigation Engineering,1998      General Aspects of Irrigation Engineering J. Nugteren,1971      *The Engineering Index* ,1906      *Irrigation Engineering Fundamentals* Gary P. Merkley,Utah State University. Biological and Irrigation Engineering Department,2007      **Technical Note** ,1914      **The Indian and Eastern Engineer** ,1925      Irrigation Engineering ,1985      **Monthly Catalog of United States Government Publications** ,2002      Engineering Magazine ,1903      **The School of Mines Quarterly** ,1890      **Agricultural Journal** ,1915      **Engineering News and American Railway Journal** ,1891      **Canadian Engineer** ,1915      **Annual Report [of the Director]** Geological Survey (U.S.),1892      *House documents* ,1895      **Water Resources Engineering** Challa Satya Murthy,2002 This Book Presents A Comprehensive Treatment Of The Various Dimensions Of Water Resources Engineering The Fundamental Principles And Design Concepts Relating To Various Structures Are Clearly Highlighted The Practical Application Of Design Concepts Is Emphasised Throughout The Book The Text Is Profusely Illustrated By A Large Number Of Detailed Drawings Andphotographs Several Worked Out Examples Are Also Included For A Better Understanding Of The Concepts Practice Problems And Questions From Various Examinations Are Given For Exercise And Self Test This Revised Edition Includes A New Chapter On River Diversion Head Works Statistical Analysis Of Rainfall And Run Off Data Infiltration Indices And Storage Capacity Of Reservoirs Design Of Sarda Type Canal Drop Additional Photographs Diagrams And Examples The Book Would Serve As An Ideal Text For B E Civil Engineering Students And Amie Candidates Practising Engineers And Candidates Appearing In Various Competitive Examinations Including Gate Upsc And Ies Would Also Find This Book Very Useful      *Engineering News* ,1903      Indian Engineering ,1920      **Catalog Issue for the Sessions of ...** New Mexico College of Agriculture and Mechanic Arts,New Mexico State University,1914

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