

# 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.

### Semiarid { Semi-dry }

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

# Irrigation Engineering Lecture Notes

**S.N. Ghosh**



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*Irrigation Engineering Fundamentals* Gary P. Merkley, Utah State University. Biological and Irrigation Engineering Department, 2007    **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    *Manual of Irrigation Engineering* Herbert Michael Wilson, 1903    Irrigation Engineering Herbert Michael Wilson, 1907    ,    **Agricultural Library Notes** , 1927    **Sprinkle & Trickle Irrigation** Gery P. Merkley, Richard G. Allen, Utah State University. Biological and Irrigation Engineering Department, 2004    **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents, 1984    Flood Control and Drainage Engineering S.N. Ghosh, 1997-01-01 A survey of the problems encountered in flood control and drainage engineering Among the topics studied are estimation of design flood flood routing through reservoirs and channels design of spillways and flood mitigation through planning of reservoir capacities and operation of reservoirs    **Iowa State College of Agriculture and Mechanic Arts, Division of Agriculture** Iowa State College of Agriculture and the Mechanical Arts. Division of Agriculture, Iowa State College of Agriculture and the Mechanical Arts. Division of Engineering, 1907    **The School of Mines Quarterly** , 1900    *Catalogue for the Year ... and Announcement for the Year ...* University of Wyoming, 1906    Quantitative Chemical Analysis C. Remigius Fresenius, 1908    *Engineering Education* American Society for Engineering Education, 1902    *Tables of Minerals* Samuel Lewis Penfield, 1907    **Technical Note** , 1914    **General Catalog** Iowa State University, 1908    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

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