Theory of Structure

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Civil Technology

Masonry Dam

Masonry dams are dams made out of masonry - mainly stone and brick, sometimes joined with mortar. They are either the gravity or the arch-gravity type. The largest masonry dam in the World is Nagarjunasagar Dam, Andhra Pradesh & Telangana, in India.

Functions of a Dam

A dam holds water for later use,
irrigation, navigation,
hydroelectricity, flood control,
fishing, and recreation.



Types of Dam

- Arch Dam. A concrete or masonry dam, which is curved upstream so as to transmit the major part of the water load to the abutments.
- Buttress Dam.
- Coffer Dam.
- Diversion Dam.
- Embankment Dam.
- Gravity Dam.
- Hydropower Dam.
- Industrial Waste Dam.

TYPES OF DAMS

EMBANKMENT

 Constructed from compacted self ["earthfil") or rock ("rockfil") with an impervises core observed to transite the entre water load downward e0% or all large dams. In the U.S. are embeddement dams - Used to inclais water across wide river valleys or for fload control - Typically shorter and wider fram of ther types of dams.

GRAVITY



- Constructed of concreto or stone masceny - Designed to transfer the reline water load downward - Typically span namow nev valeys with batrock tabunants and foundations - Rostan water to yutilizing the weight of the clam to resist the hostomal water load pushing against it - Saith sector of the dam is independently stable

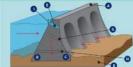
ARCH



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 Constructed of concrete
Designed to breading web related to the anipacent tock formation
Constructed only in compares with solid rock walls that are able to readed the pressure of the dam.
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BUTTRESS



Constructed of reinforced concrete
Lossigned to transfer the water load both downward and
to the butterses
Hotlow gravity same with a solid upstneam face and a
buttersed conventionm side
Butterses are supports that transmit the water force to a

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