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recent two years, just about 20 percent are concrete dams and remaining 80 percent are embankment dams. It is thus readily recognized that construction of embankment dams is a recent world-wide trend in place of concrete dams. Two major distinct features and advantages are noticed

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Embankment dams come in two principle varieties: earthfill embankment dams and rockfill embankment dams. An earthfill embankment dam is made by building a foundation wall that is embedded into the rock below the dam to prevent water flowing



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beneath it and then creating a core of impermeable clay on top of this (Figure 8.3).

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A depth-capacity curve can then be drawn up to provide a quick and easy method for the dam designer to choose the optimum

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full supply level. A simplified example of a depth-capacity curve is shown in Figure 7. Often the depth-surface area curve (usually with a reversed scale) is added to these graphs. 6.2 CONTOUR SURVEY

Detailed design 6

An earth dam is a dam built with highly

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compacted soils. It is classified as a type of embankment dam, being built in the shape of an embankment or wedge which blocks a waterway. In addition to soil, other materials such as rock and clay are also used in earth dams.

Designing Earth Dams Optimally -

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6.2 SEEPAGE THROUGH A  
HOMOGENEOUS EARTH DAM It is  
considered to be poor design practice to  
permit the water, which will inevitably seep

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through the homogeneous earth fill, to discharge along the downstream face of the dam. This may be avoided by provision of a drain on the downstream side of the dam, such as the one shown in Fig. 6.4.

### 6. SEEPAGE THROUGH DAMS

#### Embankment Design 2.1 Introduction 2.1.1

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**Purpose** The purpose of this chapter is to give basic guidance for the design of embankment dams within the Bureau of Reclamation (Reclamation). 2.1.2 Scope Design procedures and concepts, with direction to appropriate chapters within Design Standard No. 13 - Embankment Dams for specific methods or analyses,

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Design Standards No. 13 Embankment  
Dams

Transcribed Image Text 1- Design an earth  
embankment dam with the following data:  
Ground level of the bed surface = 90 m The  
highest flood level (HFL) = 98 m Fetch  
distance = 2.0 km Mechanical compaction



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Draw the phreatic line through the dam  
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Tataragi Dam in Asago, Hyogo Pref.,  
Japan. An embankment dam is a large

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artificial dam. It is typically created by the placement and compaction of a complex semi- plastic mound of various compositions of soil, sand, clay, or rock. It has a semi-pervious waterproof natural covering for its surface and a dense, impervious core.

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Embankment dam - Wikipedia

Embankment dams have many advantages over equivalent concrete structures and are most appropriate for farm or other rural situations. Dams up to 15 m high, when built on suitable sites and correctly designed and constructed using good earthworks materials, can be built using relatively

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unsophisticated design procedures and equipment.

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