

# The Hydraulic Principles Governing River and Harbor Construction

a)

## Fluvial Geomorphology

Natural Channel Design (NCD) Approach:  
Reference stream analog comparison applying  
morphological dimensionless ratios for  
planform, pool-riffle, bank channel features.

## Engineering Hydraulics

1D, 2D hydraulic models used to verify  
hydraulic geometry relations.

## Aquatic Ecology

Rapid bioassessment indices  
for habitat and biota.

b)

## Fluvial Geomorphology

Dynamic geomorphic maintenance processes for  
floodplains, channel planforms, bar units, and  
roughness elements; riparian vegetation dynamics.

## Engineering Hydraulics

2D, 3D hydraulic models, and multi-stage  
eco-hydraulic relations with habitat suitability  
parameters; coherent turbulence structure;  
hydraulic geometry relations.

## Aquatic Ecology

Functional traits analysis and life history  
pattern summation for target species and/or  
biota assemblages; multiple stressor analysis;  
eco-hydraulic mesohabitat classification.

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hand.Cyclopedia of civil engineering: a general reference work on surveying, railroad construction, hydraulic engineering, irrigation, river and harbor improvement.A dam is a barrier that stops or restricts the flow of water or underground streams. Reservoirs . The first was built at Shustar on the River Karun, Iran, and many of these were later built in other parts of the Islamic world .. An outdated method of zoned earth dam construction utilized a hydraulic fill to produce a watertight core .Characterization and Elutriate Testing of Acushnet River Estuary Sediment. 4. Surface .. Safety of the dredging/construction personnel and the surrounding population is a . The hydraulic dredge operates on the principle of the centrifugal.The U.S. Army Corps of Engineers built the structure in The Lab .. principle of hydraulic model experiments done at WES: In the last such as rivers and harbors, engineers theorized that the hydraulic behavior of prototypes could be.

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