Shore protection manual.

U.S. Army Coastal Engineering Research Center - This Program for courses of Coastal Engineering



Description: -

Grandjouan, Claireve.

Shore protection. Shore protection manual.

AD/A-001 340Shore protection manual. Notes: Bibliography: p. 4-155-4-180. This edition was published in 1973



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Types of Coastal Protection Structures and their Details

The subtle changes in the beach which occur during normal conditions are nearly imperceptible to the untrained observer, but the beachs defensemechanisms become obvious when storms attack. WAVE AND WATER LEVEL PREDICTIONS I— Introduction, page 3-1; II— Characteristics of Ocean Waves, page 3-1; III— Wave Field, page 3-19; IV— Estimation of Surface Winds for Wave Prediction, page 3-27; V— Simplified Methods for Estimating Wave Conditions, page 3-39; VI— Wave Forecasting for Shallow Water, page 3-55; VII— Hurricane Waves, page 3-77; VIII— Water Level Fluctuations, page 3-88; Literature Cited, page 3-130; Bibliography, page 3-140CHAPTER 4.

Shore protection manual (1984 edition)

Thus, high storm waves will generally move morematerial per unit time than that moved by low waves. A significant amount of this wave energy is finally dissipated in thenearshore region and on the beaches Waves provide an important energy source for forming beaches; sortingbottom sediments on the shoreface; transporting bottom materials onshore, off-shore, and alongshore; and for causing many of the forces to which coastalstructures are subjected. This bareventually grows large enough to break the incoming waves farther offshore, forcing the waves to spend their energy in the surf zone.

Shore protection manual (1984 edition)

This is particularly true in the Great Lakes and in bays andestuaries where waves are fetch-limited and do not develop into long swellwaves. Alternate erosion and accretion may be seasonal on some beaches; the winterstorm waves erode the beach, and the summer swell waves rebuilds it. This can be mitigated by sand-bypassing systems. Beach-grass seeds are not generally available from commercial sources, and must be wild harvested during the fall for springseeding.

Shore Protection

The range of tides varies tremendously with geographic location. Protective beach, Rockaway Beach, New York. Even more dramatic is the difference betweenmean tidal ranges at Anchorage 7.

Details

For some situ-ations, waves are better described by these higher order theories, which areusually referred to as finite-amplitude theories. The physical system within this region iscomposed primarily of the motion of the sea, which supplies energy to the system, and the shore, which absorbs this energy.

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Predictionmethods generally have been based on simple waves where elementary mathemati-cal functions can be used to describe wave motion. The clumps should be separatedInto transplants having the desired number of culms stems.

Related Books

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- College algebra
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