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# Coastal Engineering Design Parameters

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## Design

### **Coastal Engineering Design Parameters**

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engineering: processes,  
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revetment systems

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**Coastal Engineering:  
Processes, Theory  
and Design Practice**

Engineering and  
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ENGINEERING MANUAL

1. Purpose. The purpose of the Coastal Engineering Manual (CEM) is to provide a comprehensive technical coastal engineering document. It includes the basic principles of coastal

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processes, methods for computing coastal planning and design parameters, and guidance on how to formulate coastal flood

## **Coastal Engineering Manual - Part I**

Coastal Engineering Design for Coastal/Civil Infrastructure Woods Hole Group bases coastal engineering design on developing a solid understanding of site-specific coastal

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processes. As such, engineering design extends beyond just calculations and drawing - designs are geared to work effectively with the coastal processes to identify the most ...

## **Coastal Engineering Design for Coastal/Civil Infrastructure**

performed in the 2005 Feasibility Study. The design guidance for

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designing the

revetment alternatives used by the New York District in the 2005 Feasibility Study was EM 1110-2-1614 (30 June 1995) "Design of Coastal Revetments, Seawalls, and Bulkheads".

## **Appendix 1 Coastal Engineering**

The U.S. Army Shore Protection Manual (1984) provides a complete discussion of



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coastal structures,  
their use, design and  
limitation. A P-C based  
support system  
entitled Automated  
Coastal Engineering  
System (ACES) is also  
available through the  
USAE Waterways  
Experiment Station,  
Coastal and Hydraulics  
Laboratory, Vicksburg,  
MS 39180-6199.

**Coastal Structures  
Design Criteria |  
Types of Coastal ...**

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Engineering &  
Design. TCG  
specializes in the  
structural design and  
permitting of mid to  
large scale commercial  
and residential  
marinas, single family  
docks, seawalls,  
breakwaters, wave  
attenuation devices,  
and all types of  
dredging projects. TCG  
has provided numerous  
clients with value  
engineering based on  
the needs of the client

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and the limitations of  
the project parameters.

## **Coastal Engineering & Design**

The parameters involved are: The breaker height,  $H_b$ , The depth of water at breaking,  $h_b$ , The crest elevation,  $y_b$ . above the still water level (Subscript b denotes breaking) The type of breaker is determined by the Iribarren Number, often termed

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the “surf similarity  
parameter”:  $\xi_0 = \tan \alpha$   
/ (HoLo)<sup>1/21</sup>.

## **COASTAL AND OFFSHORE STRUCTURES**

BlueShore is a consulting and design engineering firm serving primarily the Hudson River Valley, New York City, northern New Jersey, Long Island and Connecticut coastal communities. We are

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based in the Township  
of Teaneck in Bergen  
County, New Jersey.

## **WELCOME TO BLUESHORE ENGINEERING**

Breakwaters for  
Shoreline  
Stabilization," under  
the Coastal Structure  
Evaluation and Design  
Program at the Coastal  
Engineering Research  
Center (CERC), U.S.  
Army Engineer  
Waterways Experiment

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Station (WES). Messrs. J. H. Lockhart and J. G. Housley were HQUSACE Technical Monitors. This report was prepared by Ms. Monica A. Chasten, Coastal

## **Engineering Design Guidance for Detached Breakwaters as ...**

Coastal Engineering Co. was key to the successful completion of a \$25-million project

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to massively reorganize pathways and parking and add guest rooms, a wastewater treatment facility, a second pool and a children's center, and also redo the resort's waterfront landscaping and terracing. John and his team work as true partners of the resort.

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Engineering Co.**

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can provide local governments and private developers with civil engineering expertise and project management experience, resulting in cost effective infrastructure design solutions.. Planning - Coastal can provide innovative and cost-effective solutions for a complete range of land use planning issues necessary to successfully meet your



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project objectives.

## Design

**Home - Coastal  
Engineering  
Associates, Inc.  
Brooksville ...**

- basic coastal structures designs are thousands of years old
2. Determination of design parameters  $\Delta$  loading (design itself may be a small part)
- coastal structures generally look at events with 50, 100 and/or 500 year return

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intervals as the design events... need to determine what that is and its magnitude!

## **01 Introduction, Types of Structures & the Coastal ...**

Coastal Engineering is an international medium for coastal engineers and scientists. Combining practical applications with modern technological and scientific approaches,

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such as mathematical and numerical modelling, laboratory and field observations and experiments, it publishes fundamental studies as well as case studies on the following aspects of coastal, harbour and offshore engineering ...

## **Coastal Engineering - Journal - Elsevier**

June 2015 4

Engineering & Design

Appendix 1.2 Problem

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Identification Coastal flooding along the south shore of Staten Island from hurricanes in August 1954, September 1954, and September 1960 (Hurricane Donna) caused extensive damage as low lying areas to the

**Engineering &  
Design Appendix**  
Coastal Engineering  
Analysis and Concept  
Design Page 2 WETA  
*Page 20/27*

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Redwood City Ferry Terminal, Redwood City, CA site. The terminal is located in a no-wake zone, however passing small craft vessel wakes may be relevant for shore protection alternatives and are described in Section 3. 2.1. Site Bathymetry

**DRAFT Coastal  
Engineering Analysis  
and Concept Design  
WETA ...**

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Other details about the design of rubble-mound revetments are discussed in the Coastal Engineering Manual (USACE 2002). One alternative to the two-layer design of Figure 6.13, is a “dynamic revetment” (or “berm revetment”) which contains a significantly larger volume of smaller stones with a wider gradation.

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## **Chapter 6 - Coastal Revetments for Wave Attack - Pile Buck ...**

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Fredrick Heine  
Architect. East Quogue,  
NY. [www.sunsetgreenhome.com](http://www.sunsetgreenhome.com)

### **COASTAL**

At WSP, we provide  
design services  
combined with  
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and assessment for a variety of port and coastal projects. We are involved with the design and rehabilitation of beaches and coastal structures, such as wharves, jetties, piers, breakwaters, groins, shoreline armoring, and access channels.

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New Wave Parameter  
for Coastal Structure  
Design. A new  
parameter  
representing the  
maximum depth-  
integrated wave  
momentum flux  
occurring in a wave is  
proposed for  
characterizing wave  
processes at coastal  
structures. This  
parameter is  
physically relevant  
descriptor of wave  
forcing; and having

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units of force, it is  
useful for developing ...

## Parameters **New Wave Parameter for Coastal Structure Design**

members of the  
Coastal Engineering  
Group who contributed  
to this volume. 1.3.

References One  
general reference is so  
handy for breakwater  
design that it is not  
repeatedly mentioned.  
This book is the Shore

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Protection Manual  
published in 1973 by  
the U.S. Army Coastal  
Engineering Research  
Center.

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