

Coastal Defences: Processes, Problems, and Solutions

Coastal defences are structures or measures designed to protect the coastline from the effects of waves, tides, and storms. They are built to prevent or reduce erosion, flooding, and other damage to coastal property and infrastructure.



Coastal Defences: Processes, Problems and Solutions

by Peter W. French

★★★★☆ 4 out of 5

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Coastal defences can be divided into two main types: hard defences and soft defences. Hard defences are structures made of concrete, steel, or other materials that are designed to resist the force of waves and tides. Soft defences are made of natural materials such as sand, gravel, or vegetation that are designed to absorb or deflect the force of waves and tides.

Processes of Coastal Erosion

Coastal erosion is the process by which waves, tides, and storms remove sand and other sediments from the coastline. This can lead to the loss of beaches, dunes, and other coastal features.

There are a number of factors that can contribute to coastal erosion, including:

- Sea level rise
- Changes in wave patterns
- Storms
- Human activities

Problems of Coastal Erosion

Coastal erosion can have a number of negative impacts, including:

- Loss of beaches and dunes
- Flooding
- Damage to coastal property and infrastructure
- Loss of habitat for wildlife

Solutions to Coastal Erosion

There are a number of different solutions to coastal erosion, including:

- Hard defences
- Soft defences
- Beach nourishment

- Dune restoration
- Managed retreat

The Choice of Coastal Defence

The choice of coastal defence depends on a number of factors, including:

- The severity of the erosion problem
- The environmental impact of the defence
- The cost of the defence

Coastal defences are an important tool for protecting the coastline from the effects of waves, tides, and storms. They can be used to prevent or reduce erosion, flooding, and other damage to coastal property and infrastructure.

The choice of coastal defence depends on a number of factors, including the severity of the erosion problem, the environmental impact of the defence, and the cost of the defence.

Free Download Your Copy Today!

Coastal Defences: Processes, Problems, and Solutions is a comprehensive overview of coastal defence engineering. It is essential reading for anyone involved in the design, construction, or maintenance of coastal defences.

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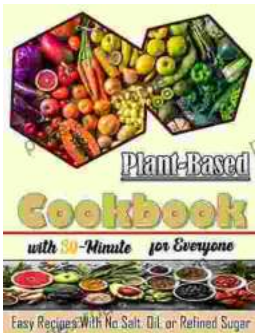
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