

Funnel Bridge Construction



Overview

The Brooklyn Bridge is a in, spanning the between the boroughs of and. Opened on May 24, 1883, the Brooklyn Bridge was the first fixed crossing of the East River. It was also the when opened, with a main span of 1,595.5 feet (486.3 m) and a deck 127 ft (38.7 m) above. The span was originall.

AI Overview

Funnel-based bridge construction uses funnel-shaped extensions or abutments to protect bridges from stream meandering while maintaining natural flow dynamics. Concept Overview The Funnel Concept, developed by Dave Derrick, is designed to protect bridges from the erosive effects of meandering streams without altering the natural stream alignment. The method involves extending bridge abutments using vegetated keys or bank protection structures, angled outward from the stream. The upstream opening of the funnel is made wider than the meander belt width, allowing the stream to flow naturally while reducing the risk of bridge scour or structural damage . The meander belt is defined as the zone between lines tangent to the outer bends of all meanders, encompassing areas of historical channel migration, abandoned channels, and oxbow lakes. Properly sizing the funnel ensures that the bridge can accommodate natural channel shifts without requiring stream modification . Structural and Design Principles Funnel-based designs can also draw inspiration from funicular funnel-shaped shells, which are structurally efficient forms used in lightweight architectural applications. These shells combine compression-only structures with tension rings, allowing smooth transitions between vertical and horizontal elements. This approach demonstrates how funnel geometries can efficiently manage forces while maintaining openness and lightness in the structure . In bridge applications, the funnel shape helps distribute hydraulic forces and reduce...

Article Content

Exploring the Brooklyn Bridge: NYC's Engineering Masterpiece

This integration was instrumental in Brooklyn's transition from an independent city to a borough of New York City in 1898. The bridge's

Section 1 Navigation equipment

1.2.3 Previous Stern First Ice Class ships have adopted variations on bridge wing orientation and funnel location in order to maximise bridge visibility. The arrangements shown in Table 5.1.1 Recommended

Vessel (structure)

Designed by Thomas Heatherwick, the elaborate honeycomb -like structure consists of 154 flights of stairs, 2,500 steps, and 80 landings for visitors to climb. Funded

Funnel construction over a durable foundation concrete

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Brooklyn Bridge

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The Brooklyn Bridge is a cable-stayed suspension bridge in New York City, spanning the East River between the boroughs of Manhattan and Brooklyn. Opened on May 24, 1883, the Brooklyn Bridge was the first fixed crossing of the East River. It was also the longest suspension bridge in the world when opened, with a main span of 1,595.5 feet (486.3 m) and a deck 127 ft (38.7 m) above mean high water. The span was originall

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Microsoft Word

This paper discusses a direct form-finding approach for funicular funnel shells, and demonstrates the manifold design space of these structures. In the following section, the basic structural principle is

Part 3, Hull Construction and Equipment

These Rules are intended for vessels of welded construction using steels complying with the requirements of Part 2, Chapter 1. Use of steels other than those in Part 2, Chapter 1 and the

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What Is The Function Of A Funnel In Science

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Current (T) and future (B) design of the Brooklyn Bridge pedestrian and cyclist entrance in Manhattan. Credit: NYC DOT NEW YORK – Today, Mayor Zohran Kwame Mamdani and New

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New York's Brooklyn Bridge is an engineering marvel

His wire suspension cables led to a prolific career as a bridge builder, including bridges in Pittsburgh and downstream from Niagara Falls, where it

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