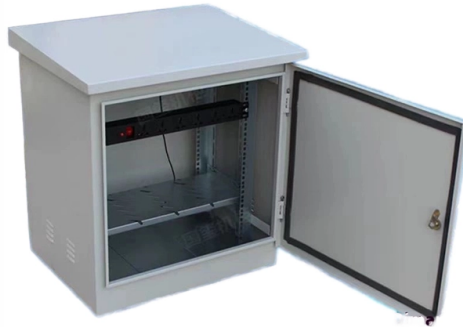


Bridge on the slope



AI Overview

Bridges constructed on slopes require careful design considerations to ensure stability, drainage, and safety, particularly regarding slope protection and structural integrity.

Design Considerations for Sloped Bridges

Head Slopes and Embankments: When constructing a bridge on a slope, the area around the bridge abutments is crucial. The slope from the highest point of the abutment to the ground is known as the head slope. Proper design and protection of these slopes are essential to prevent erosion and maintain stability.

Slope Protection: To protect slopes from erosion, especially in high-traffic areas, various methods can be employed, including the use of concrete slope protection. This involves compacting a layer of crushed aggregate and applying reinforced concrete to the slope surface. This method not only stabilizes the slope but also enhances its aesthetic appeal.

Vertical Profiles: The design of sloped bridges often involves considerations of vertical profiles. A well-designed slope can help manage drainage and reduce the risk of water accumulation, which can lead to structural issues. Engineers may use cambering techniques to ensure that the bridge remains level under load, which is particularly important for maintaining safety and functionality.

Construction Techniques: Building bridges on slopes can present unique challenges. Engineers must consider the materials used, the method of construction, and the environmental impact. For instance, ensuring that concrete is properly cured and that the slope is adequately compacted are critical steps in the construction process.

Conclusion Bridges on slopes require specialized design and construction techniques to ensure their stability and longevity. By addressing slope protection, drainage management, and structural integrity, engineers can create safe and effective bridge solutions that accommodate the challenges posed by sloped terrains.

Article Content

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Eshima Ohashi Bridge

The reason why the Eshima Bridge appears extremely steep, like the uphill slope of a roller coaster, is because of the compression effect that occurs when viewing it with a telephoto lens from Daikon

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Pedestrian bridges are an important component of an active transportation system. As part of digital and green transformation, active travel is

Slope Controversy

In March, 2014 the Top Gear team came under fire for using the word "slope" in the recently-aired Burma Special. The term is a racial epithet for a person from Asia, slope design

slope design basic guidelines As bridges across waterways or roads often have requirements regarding their vertical clearance, they often are at a level

Research on the Influence Mechanism of the High-Steep Slope on the ...

Compared with flat areas, the substructure of bridges on a high-steep slope is more complicated and has many differences in bearing mechanism and stress conditions. Given its stress

Top Gear expresses regret for "slope" remark in Burma

The executive producer of Top Gear expresses regret over a "light-hearted" remark on its Burma special that led to the BBC show being accused of

Jeremy Clarkson's "slope" joke on Top Gear was

Jeremy Clarkson's use of the word "slope" to describe an Asian man was deliberate use of an "offensive racist term" and BBC was happy to let it be

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The foundation of a large river crossing bridge is often located on high and steep slopes in mountainous area, and the stability of the slope has a

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In reality, a bridge structure may be adjacent to a slide-resistant pile and located on the inclined slope due to the constraints of various engineering conditions. In this case, the deformation

Design of slope Bridge

Vibration Lover: It is certainly common to camber the bridge girders for some percentage of their total loading, to compensate for normal deflections due to the various loads. That is HotRod10's

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World's Most Terrifying Bridges

The world's scariest bridges are known for their steep slopes and stomach-churning heights.

Bridge Geometry Manual

Determining constraints accurate layouts geometry - Introduction is central the drawings of bridge is fundamental bridge geometry superstructures Bridge geometry and provides substructures.

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Maximum sane slope for vehicle bridges : r/AskEngineers

Just curious what the maximum slope/vertical gradient you'd expect to use for a bridge. Been talking about how to replace level crossings and I'm just curious to figure out what kind of vehicle bridge

Eshima Ohashi Bridge, Known For Its “Betabumi-Zaka”

MATSUE — When viewed from the right angle, the “betabumi-zaka” ramp for the Eshima Ohashi bridge looks like it's shooting straight up into the

Eshima Ohashi Bridge: Dare to drive on this bridge

The Eshima Ohashi bridge in Japan is the third largest bridge in the world and has perhaps the steepest scariest slope any bridge could ever have.

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Bridge Geometry Manual

Bridge Geometry Manual Publication No. FHWA-HIF-22-034 Infrastructure Office of Bridges and Structures

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