

This study aims at analysing the construction control of a synchronous swivel T-rigid frame bridge with the self-weight of 12,000 ton for each wing, and providing simplified procedures to determine the ...

It provides a detailed examination of the stability performance of bridges in unbalanced states under single-side joint support configurations and analyzes the mechanical performance and ...

The world's largest high-speed railway arch bridge with the heaviest swivel tonnage (16,800 t) in soil foundation district, namely the swivel arch bridge over Hu-Hang highway, has been ...

This study focuses on horizontal rotating construction, which is also called the accelerated bridge construction (ABC) method, provides the optimal urban bridge construction ...

For the construction of urban flyover, the superstructure horizontal rotation method is widely used, the main steps of this method are shown as follows. Firstly, the pier is built on both ...

As an emerging bridge construction technology, swivel bridge construction is widely employed to cross existing lines because of less interference with transportation. A safe and stable ...

This study investigates the wind resistance stability of a rigid frame bridge before and during rotation.

Featuring a symmetrical cable-stayed steel swing span with a total length of 122.7m rotating on a rim-bearing circular central pier, it is the only swing bridge operating in Vietnam as of 2025.

Rotation T-frames are constructed at piers No. 6 and No. 7 on both sides of the existing railway line. After construction, horizontal rotation is performed, and closure sections are constructed ...

The movable span of a swing bridge, also termed the draw, rotates about a vertical axis (pivot axis). If the pivot axis is at mid-length of the draw, the draw is said to be symmetrical or to have equal length arms.

The structure is a double-swing design, meaning both sides of the bridge rotate away from the central pier, creating a vast navigational opening. These arms are actuated by electric ...

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