

Beam bridges are the simplest and most widely used bridge type, consisting of one or more horizontal beams (girders) that span between abutments or rest on intermediate piers for ...

In this paper, the real performance of a newly constructed skewed half-through plate girder railway bridge was assessed using an integrated fiber optic monitoring system installed during the bridge's ...

A bridge is a structure that spans horizontally between supports, whose function is to carry vertical loads. Generally speaking, bridges can be divided into two categories: standard overpass bridges or ...

The research takes a novel half-through basket-type tied-arch bridge with unequal spans and multiple arches over Sishui River, in Yanzhou, Shandong Province, China as the engineering background.

Aside from the main components, such as the girders or the floor structure, other parts such as bearings (shoes), expansion joints, guardrailings, drainage paths, lighting, and sound ...

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Objective: Precast concrete segmental bridges with external tendons are becoming widely constructed all over the world. The main objective of this study is to obtain a further understanding of...

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Bridge structures represent a challenge in the built environment: they are the crystallization of forces finalized to keep someone in an unreachable place. Bridges provide the most appropriate connection ...

To introduce the design of plate girder and beam bridges for highway, railway and footbridge applications. This lecture identifies the principal types of composite and non-composite ...

It is constructed for the purpose of providing passage over the obstacle, which is usually something that is otherwise difficult or impossible to cross. There are many different designs of ...

This handbook covers a full range of topics and design examples intended to provide bridge engineers with the information needed to make knowledgeable decisions regarding the selection, design, ...

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