
Specifications of Intelligent Folding Containers for Bridges

What are the conditions for the success of foldable containers?

Konings and Thijs summarized clearly the conditions for the success of foldable containers in the market: (1) low costs for folding and unfolding the containers; (2) low manufacturing costs; (3) compatibility with existing equipment for intermodal transport; and (4) structural robustness.

Are foldable containers effective in repositioning empty containers?

Foldable containers are considered an effective solution to deal with the endemic imbalance in the repositioning of empty containers. Several foldable containers were commercialized without clear breakthrough in the market and most current researches are still limited to small pilot projects.

What are the benefits of a foldable container?

Using the newly developed foldable container can not only significantly reduce logistics costs, but also bring positive environmental impacts such as reducing greenhouse gas that may have arisen from transporting bulky empty containers. Also the foldable container influences social aspects such as noise pollution, local development and employment.

What is a rigid-flexible composite folding floating bridge?

The main body of the new rigid-flexible composite folding floating bridge proposed in this paper is a three-layer structure consisting of a bridge deck, airbag, and water bag. The scheme adopts a longitudinal distribution of airbags and a staggered arrangement of the bridge deck and middle protruding airbags.

The paper presents two new technologies for the construction of single-span road bridges using the DMS-65 folding bridge structure. ...

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Foldable Living Containers Optima Technic designs and manufactures Foldable Containers according to the projects. The most important feature is that they can be folded during ...

The results show that introducing foldable containers into empty container repositioning along a river can utilize vessel space more effectively and decrease the total cost ...

This paper presents the design of a new 5-tier stacking foldable container with convenient folding and unfolding process and that can be produced economically compared to ...

However, traditional floating bridges have limitations such as large size, heavy weight, and slow construction time. In this paper, we ...

As a temporary means of water transportation, floating bridges play an important role in the military and other fields. However, traditional floating bridges have limitations such ...

This folding bridge version utilises a strong and stable overall design using folding trusses. The most major area for improvement is to lighten the entire structure and improve ...

Explore the potential of Adaptive Folding Structures in modern construction, inspired by origami for efficient design and deployment.

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The structures were optimised for different load cases and in different folding states. The bridges in final state were optimised under self-weight and for a live load of ...

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