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Title: Single-phase folding container for Italian bridges

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What are Italy's new bridge regulations?

In 2022, the Italian Government introduced innovative regulations for evaluating and monitoring existing bridges and viaducts, tackling issues related to risk classification, safety assessment, and monitoring. These regulations employ a multilevel approach for bridge inspections, safety assessments and monitoring procedures.

How is bridge management addressed in Italy?

In Italy, bridge management is addressed by the recent "Guidelines for risk classification and management, safety evaluation and monitoring of existing bridges" which were issued by the Italian Ministry for Public Work in 2020.

What are the Italian guidelines on risk classification & management of bridges?

The Italian guidelines on risk classification and management of bridges follow a multilevel approach. This approach is developed on six levels (from level 0 to 5) which require different activities as briefly described below: Level 0.

How to manage and risk assessment of Italian bridges?

In the past, specific Italian regions and handlers have also gained experience on the management and risk assessment of Italian bridges by means of collaborations with academic research groups or specialists in order to develop internal guidelines or obtain support for activities of safety verification of bridge structures.

After some recent collapses of Italian bridges, specific guidelines on risk classification and management, safety assessment and monitoring of existing bridges were issued in Italy in 2020. The ...

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 6kN/m; on the bridge ...

Increasing requirements of capacity of light weight bridges (higher span, higher load, less weight) lead to an ultimate utilization of material strength and structural resources of bridge design. ...

article introduces the structural design and system composition of energy storage containers, ...

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In the field of prestressed concrete (PC) bridges, Dr. Rosignoli has led the construction of a cable-stayed bridge, 6 incrementally launched bridges, many precast beam bridges, 3.5km of bridges cast span ...

The present manuscript deals with the huge problem related to the structural safety of the Italian infrastructural asset. The case study of the Province of Caserta, whose infrastructural heritage ...

In the present handbook, actions on bridges and load combinations according to Eurocode 1_2 are illustrated, stressing the philosophy and methodological criteria that have brought ...

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