

Bumping into a bridge



Overview

The “bump at the end of the bridge” is caused by a phenomenon known as differential settlement. This occurs when the soil embankment that supports the approach roadway settles more than the deeply founded bridge structure, which remains stationary. Bridge approaches are normally constructed with reinforced concrete slabs that connect the bridge deck to the adjacent paved roadway. In theoretical investigations, the road profile is usually modelled as a. Structural damage identification plays an important role in providing effective evidence for the health monitoring of bridges in service.



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This paper uses planar vehicle-bridge interaction models to assess the increase in shear effects at the supports that a bump prior to the bridge may cause. Results for a range of bumps, bridge lengths, ...



Based on additional virtual mass, this paper presents a damage identification method for bridges using a vehicle bump as the excitation. First, general equations of virtual modifications, ...



The primary function of the bridge approach is to provide a seamless transition from the highway or railway embankment to the bridge structure. However, a sudden change in elevation ...



Abstract This paper describes a case of using a pile-slab composite foundation to handle a bridge-end bump problem. Conventionally, a deep-seated concrete slab method is employed to ...



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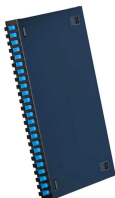
This paper reviews the factors that contribute to the formation of bridge bump while also identifying the available methods that was used to eradicate this problem.



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The bump at the end of the bridge (BEB) is one of the most prevalent factors impacting ride quality at a bridge's approach and departure and can be a safety hazard to motorists.



The present study evaluates common bridge approach problems and causes and recommends improvements to bridge approach design, construction, and maintenance.



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The complaints usually involve a “bump” that motorists feel when they drive on or off bridges. This problem is commonly referred to as the bump at the end of the bridge, mainly resulting from the ...

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