

عنوان مقاله:

Investigating the Use of Geosynthetic Reinforcement in Earthquake-Resistant Bridge Construction

محل انتشار:

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خلاصه مقاله:

This paper presents a comprehensive investigation into the use of geosynthetic reinforcement to enhance the earthquake resistance of bridge structures. The study focuses on evaluating the effectiveness of various types of geosynthetic reinforcements, including geogrids, geotextiles, and geocells, in mitigating seismic damage to bridges. A detailed literature review is conducted to identify the current state-of-the-art in this field, followed by a comprehensive experimental program to validate the theoretical concepts. The experimental program includes large-scale and small-scale tests, as well as numerical simulations, to assess the behavior of bridges reinforced with geosynthetics under various seismic loading conditions. The results of the study provide valuable insights into the design and construction of earthquake-resistant bridges using geosynthetic reinforcement

کلمات کلیدی:

Geosynthetic reinforcement, Earthquake resistance, Seismic damage, Bridge structures

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