

عنوان مقاله:

Application of Double-Layer Space Structures in Bridges Deck

محل انتشار:

کنفرانس بین المللی مهندسی، هنر و محیط زیست (سال: 1393)

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خلاصه مقاله:

Steel and concrete is commonly used for construction of bridges deck. But the heavy weight of steel and concrete decks and the impossibility of making them as long-span bridges deck has caused the engineers to think a new material that besides lightness and ease of implementation, can provide a good resistance against applied loads including both dead loads and dynamic loads caused by the passage of motor vehicles and also it cause to accelerate the projects implementation in compared with the specimens that was made by concrete materials. Space structures due to the lightness, ease and expedite of implementation are a suitable replacement for deck bridges. Therefore, in this paper, by design and analysis a bridge that made of double-layer space frames and compares with I-shaped steel bridges and concrete deck bridges in terms of span deflection, structural weight and economic and environmental aspects.

کلمات کلیدی:

Space Structures, Bridges Deck, Steel Deck Bridges, Concrete Deck Bridges, Deflection

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