

عنوان مقاله:

Using of nano Materials to improve Fatigue Life of Stone Mastic Asphalt

محل انتشار:

سومین کنفرانس بین المللی عمران، معماری و توسعه اقتصاد شهری (سال: 1395)

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خلاصه مقاله:

Nanotechnology is one of the most important research areas and is presented in the vast fields of knowledge such as road construction industry has been surrounded. This paper has focused on the potential benefits of nano particles for modification of asphalt mixtures. Nano Fe₂O₃ due to its unique properties can improve the dynamic characteristics of stone mastic asphalt. Fatigue life of asphaltic samples is determined with indirect tensile fatigue tests by using of UTM Asphalt Tester. The results show that fatigue life of modified asphalt mixtures in compare with conventional mix is significantly increased.

کلمات کلیدی:

Stone Mastic Asphalt, Nano Fe₂O₃, Fatigue Life

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