

عنوان مقاله:

Experimental Investigation of Visco -Elastic Behavior of Glasphalt Mixtures Using Dynamic Non-Destructive Test

محل انتشار:

نهمین کنگره بین المللی مهندسی عمران (سال: 1391)

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خلاصه مقاله:

Pavement weakness in the case of dynamic loads and short performance lifetimes are the major concerns regarding their repair and maintenance. Important parameters identification in determining behavior of asphalt mixtures under dynamic loading, can lead to efficient and better design of asphalt pavements. Application of new technologies and ideas in design of asphalt mixtures, cause changes in the pavement functional behavior. Among them, the development of using additive materials in asphalt mixtures for improvement their performance against dynamic loads has significantly increased. In recent years glasphalt mixture due to its unique characteristic has widely considered in the world. Previous researches indicated that glass can reduce the construction costs of asphalt concrete pavements while providing better mechanical and dynamic properties. The purpose of this study is investigation of visco-elastic behavior of glasphalt in comparison with conventional asphalt mixtures. To achieve this goal, the dynamic non-destructive test is carried on glasphalt and conventional asphalt specimens and elasticity modulus of this mixture as an effective parameter in such behaviors determined and be compared and evaluated. The results of this study show .an improvement in the visco-elastic behavior of glasphalt in comparison with conventional HMA

کلمات کلیدی:

Asphalt Pavement, Visco-Elastic, Non-Destructive Test, Glasphalt, Elasticity Modulus

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