**عنوان مقاله:**

Experimental Estimation Of Optimal Mechanical Model Of Viscoelastic Material Using The Relaxation Test

**محل انتشار:**

ششمین کنگره بین المللی مهندسی برق، کامپیوتر و مکانیک (سال: 1400)

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**خلاصه مقاله:**

The purpose of this paper, is to extract the dynamic parameters of a viscoelastic material sample for estimate the optimal mechanical viscoelastic constitutive models. The optimal mechanical model considered for viscoelastic material is the Standard Linear Solid (SLS) model in parallel with a viscous or constant structural damper. This model compare with Standard Linear Solid viscoelastic model. The results show that amongst the identified models, The Standard Linear Solid (SLS) model in parallel with a viscous or constant structural damper (stiffness proportional) results in better correlation with experiments.

**کلمات کلیدی:**

Viscoelastic material, Experimental relaxation test, Standard Linear Solid model, Storage and loss modulus, Damping.

**لینک ثابت مقاله در پایگاه سیویلیکا:**

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