

عنوان مقاله:

damage detection in vibrating composites using MEMS

محل انتشار:

اولین کنفرانس بین المللی ساخت ساز شهری در مجاورت گسل های فعال (سال: 1390)

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

we present a methodology to monitor the state of crack -containing composite structures subjected to time -varying loadings . Adopting a simple test set - up , we focus on slowly varying loading conditions and show that low - cost commercial off - the - shelf MEMS accelerometers can display a noteworthy sensitivity to the length of a growing crack. through comparison with finite element simulations we also assess the robustness and accuracy of the proposed methodology

کلمات کلیدی:

health monitoring , micro -electro-mechanical systems MEMS , composite structures, damage/cracking

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/119520>

