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International Journal of Recent Technology and Engineering
Volume 7, Issue 6, March 2019, Pages 219-223

Shape control of composite plates with piezoelectric actuators (Article)

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Abstract

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In this paper, shape control of composite plates using piezoelectric actuators is being investigated. The goal of this study was to see how composite plates behave when they are integrated with piezoelectric actuators. Modelling and simulation were done using COMSOL Multiphysics software and results were validated using previously published studies. Parametric investigations were carried out to investigate the effect of patch locations and stacking sequences with respect to suppression of deflection. The obtained results showed that for uniformly distributed load considered in this work the patches worked effectively when they were placed at the center of the composite plate. © BEIESP.

SciVal Topic Prominence ⓘ

Topic: Piezoelectricity | Vibration control | piezoelectric layers

Prominence percentile: 89.977 ⓘ

Author keywords

Composite plate COMSOL Piezoelectric actuators Shape control

Funding details

Funding sponsor	Funding number	Acronym
International Islamic University Malaysia	RIGS17-045-0620	

Funding text

The authors would like to acknowledge the Research Management Center of International Islamic University Malaysia for funding this work through the Research Initiative Grant Scheme RIGS17-045-0620.

ISSN: 22773878
Source Type: Journal
Original language: English

Document Type: Article
Publisher: Blue Eyes Intelligence Engineering and Sciences Publication

References (11)

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