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Optimization of Dynamic Mechanical Response of a Composite Plate Using Multi-Field Coupling with Thermal Constraints

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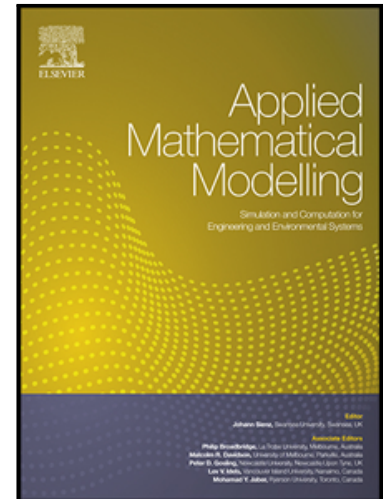
PII: S0307-904X(18)30053-2  
DOI: [10.1016/j.apm.2018.01.041](https://doi.org/10.1016/j.apm.2018.01.041)  
Reference: APM 12157

To appear in: *Applied Mathematical Modelling*

Received date: 2 June 2017  
Revised date: 14 January 2018  
Accepted date: 30 January 2018

Please cite this article as: Dmitry Chernikov, Olesya I. Zhupanska, Pavlo Krokhmal, Optimization of Dynamic Mechanical Response of a Composite Plate Using Multi-Field Coupling with Thermal Constraints, *Applied Mathematical Modelling* (2018), doi: [10.1016/j.apm.2018.01.041](https://doi.org/10.1016/j.apm.2018.01.041)

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**Highlights**

- Nonlinear PDE-constrained optimization multiphysics problem is considered
- Plate vibrations due to mechanical and electromagnetic loads are studied
- Optimal characteristics of an electromagnetic field minimizing vibrations are found
- Joule heating is controlled through introduction of a thermal constraint

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