Dynamic buckling of magnetorheological fluid integrated by visco-piezo-GPL reinforced plates

Ahmad Fakhar , Reza Kolahchir

PII: S0020-7403(18)30639-8
DOI: 10.1016/j.ijmecsci.2018.06.036
Reference: MS 4405

To appear in: *International Journal of Mechanical Sciences*

Received date: 27 February 2018
Revised date: 10 June 2018
Accepted date: 28 June 2018

Please cite this article as: Ahmad Fakhar , Reza Kolahchir , Dynamic buckling of magnetorheological fluid integrated by visco-piezo-GPL reinforced plates, *International Journal of Mechanical Sciences* (2018), doi: 10.1016/j.ijmecsci.2018.06.036

Highlights

- **Dynamic buckling of MR fluid integrated by piezoelectric layers is studied.**
- **The facesheets are reinforced by non-uniform graphene platelets.**
- **The nanocomposite facesheets are exposed to 3D electric field.**
- **The structural damping of the piezoelectric layers is considered.**
- **Differential cubature method is used for calculating the dynamic instability region.**