Accepted Manuscript

A Two-Stage Approach to Updating of Mass, Stiffness and Damping Matrices

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PII: S0020-7403(17)30480-0
DOI: 10.1016/j.ijmecsci.2018.02.033
Reference: MS 4193

To appear in: *International Journal of Mechanical Sciences*

Received date: 27 February 2017
Revised date: 23 January 2018
Accepted date: 15 February 2018

Please cite this article as: Sharad Pradhan , S.V. Modak , A Two-Stage Approach to Updating of Mass, Stiffness and Damping Matrices, *International Journal of Mechanical Sciences* (2018), doi: 10.1016/j.ijmecsci.2018.02.033

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Highlights

- A two stage approach to updating of mass, stiffness and damping matrices is proposed.
- Coupling between the two stages of updating is investigated through a numerical study.
- Effect of data incompleteness and noise on the coupling between the two stages is investigated.
- A hybrid data based approach is suggested to deal with data incompleteness.
- Effectiveness of the two-stage approach is studied through an experimental study

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