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An Efficient Method to Quench Excess Vibration for a Harmonically Excited Damped Plate

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Highlights

- A simple and efficient method to suppress excess vibration on an arbitrarily supported rectangular damped plate subjected to steady-state harmonic excitations is developed.
- An efficient procedure is developed to identify sets of feasible attachment locations for the vibration absorbers when three or more nodes are enforced.
- A procedure is proposed to tune the absorbers under the constraint of the tolerable vibration amplitude for the damped oscillators.

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