

# Review of: "Simulation of Control System for a Half-Car Suspension System for Passenger Vehicle Application by Designing an LQR Controller"

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Potential competing interests: No potential competing interests to declare.

## General Comment

Overall, the technical content and presentation have significant scope for further improvement before the article can be considered accepted for publishing.

1. There are many wording errors in the article, such as the variables in Tables and Figures not being italicized. The unit symbol should be expressed in international units.
2. The LQR controller was used in the article, but the control objectives were not clearly defined
3. The numerical results in the article only show the displacement of each typical part. The evaluation indicators for suspension are smoothness (acceleration), suspension travel, tire deformation, etc. These results should be presented in the numerical analysis results.
4. The real-time control of active suspension mainly manifests in active control force, and the real-time curve of active control force should be provided in the article. The author needs to explain what kind of actuator can achieve control force.