

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

Olurotimi Akintunde Dahunsi¹

1 Federal University of Technology, Akure

Potential competing interests: No potential competing interests to declare.

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Simulation of Control System for a Half-Car Suspension

System for Passenger Vehicle Application by Designing an

LQR Controller

The article was written with a good structure and thorough analysis but the following issues need to be considered to improve on the quality:

- 1. The manuscript must be paged for the purpose of easy referencing.
- 2. Captions of some figures have spilled to the next page making the write-up untidy.
- 3. Figures need not have two captions, the captions on top of the graphs must be deleted.
- 4. Where is Figure 3?
- 5. Figures 2 and 4 are too small
- 6. Author should be careful to use the right units, for example "m" not "M" and "kg" not "K g"
- 7. All the names of the author of a listed article in the list of references must be written out, "et al." can be used in the intext citation.
- 8. In section 3: In this study, PID and LQR controllers are used,; moreover, the results for PID control implementation or its design was not presented.
- 9. Apart from Figure 8 which presents the "pitch" mode (which was not even well discussed) at the results and analysis presented could be obtained using the 2 degree of freedom quarter car model, why are we still talking
- 10. Why are you working on LQR?