

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.

The article is acceptable but lacks novelty. There are some suggestions the authors can consider:

1. The text font should be consistent, for example, the text fonts are not the same in the paragraph below figure 8.
2. Check the equations, for example, equation 10 is not correct.
3. Figures should be improved, for example, figure 5 is too small to see. Figures 10-13 are very hard to see. Figure 2 is not necessary.
4. Can you put the variables in Nomenclature or in appendix?
5. You mentioned the PID controller, where is the PID controller simulation result?
6. Based on figures 10-13, how can you conclude that the settling time is faster? Please illustrate.
7. How can you handle the external disturbance with the LQR controller and how can you observe all states in real practice?
8. Literature review of the state-of-art in this application should be mentioned in the introduction.