

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.

This paper presents an analytical discussion on suspension control. The modeling strategy followed in this research is well known, so the authors must better demonstrate a new aspect that is presented in this study.

Some great suggestions are listed below:

- Extending the dynamic response analysis by studying the stability of the eigenvalues starting from the described matrices;
- Studying the improvement of shock absorbers will be a great added value;
- Can the model's capabilities be compared with some experimental results? Otherwise it will seem like a mere academic exercise.
- Adding some important references related to this research and comparing them with them, especially the articles on

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