

# 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 paper presents an analytical discussion on the control of a suspension system. The modeling strategy is quite well known in the literature so the authors should better substantiate the innovative aspect introduced with the present study.

Some remarkable suggestions are listed below:

- expand the analysis of the dynamic response with a stability study of the eigenvalues starting from the illustrated matrices;
- a shock absorber optimization study would be a significant added value;
- is it possible to compare the potentiality of the model with some experimental results? Otherwise it would only seem like an academic exercise.

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