

# 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.

In Table 1 please correct the units. For example: mass is kg, (lowercase, and there is no space between k and g. Delete the space in N s/m, N /m, K g m<sup>2</sup> too.

In table2 meter is lowercase m!

Please use lower indexes in table1, and 2 in the same way as they are in the equations later!

In the equation of angular acceleration you can simple make a torque equation of  $\text{cross}(\mathbf{r}, \mathbf{F})$ , if  $\mathbf{r}$ , and  $\mathbf{F}$  are vectors of displacements, and forces. Same result will be achieved, but in this way it is more elegant, and there is less chance to mistake a sign.

I am satisfied with the methodology, and the results!