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His main scientific focus in automotive is on vehicle dynamics and safety, driver assistance systems, electro mobility and driving simulators. Prof. Dr.-Ing. habil. Dr. H.C. Mult. M. Hiller has been head of the first Chair of Mechatronics in Germany from 1991 to 2004 at the University of Duisburg (today University of Duisburg-Essen). During his time in Duisburg (from 1987) and before that during his time at the University of Stuttgart he has been dealing with modeling and simulation of road ...

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High performance physical modeling and simulation increases efficiency and productivity in vehicle design.

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Simulation The contents of this post will build on the
concepts of multiple reference frames and Euler angles.
If you aren't familiar with those, you may want to read
the first post in this series.

~~Modeling Vehicle Dynamics – Quadcopter Equations of
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This chapter provides information on dynamics
modeling of vehicle and tire. The vehicle axis system

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used throughout the simulation is according to the SAE standard, as described in SAE J670e. According to a brief research study of typical vehicle models, a nonlinear three-degree-of-freedom vehicle model will be used in this research.

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The simulation model consists of a Plant and a Controller. The Plant consists of an internal combustion engine (ICE), an automatic transmission (AT) and a vehicle. The external inputs in the Plant model are the accelerator pedal position, the brake pedal position and the slope (gradient) of the road.

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