

# EVALUATING THE DYNAMIC BEHAVIOUR OF CARS BY TESTING THE GUIDING SYSTEM IN VIRTUAL ENVIRONMENT

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**Abstract:** *The revolutionary evolutions in the field of motor vehicles imposed the development and utilization of high technologies for both manufacturing and design. The simulation techniques allow the engineers to conceive and equip virtual prototypes, which permit a large-scale evaluation of the system behaviour. This paper attempts to carry out the dynamic analysis of a motor vehicle, using the virtual prototype developed with the MBS software ADAMS of MSC. The virtual prototype includes the front and the rear suspension subsystems, the steering subsystem, and the car body.*

**Key words:** *suspension-steering system, virtual prototype, dynamics.*

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