

# THREE-DIMENSIONAL ANALYSES OF MECHANICAL SUSPENSION FOR AUTOVEHICLES

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**Abstract:** *The paper is focused on the problem of mechanical condition design for the coach-work taking into account the force developed by the semi-active suspension for each wheel of a car with direct application and results for Fiat Panda 2003. We have designed a 3D model for the suspension system and we have studied the internal tensions and linear displacements which could cause its functional disorder and even the breaking. The study was developed based on the results from mathematical model for computing the force acting inside the suspension system.*

**Key words:** *3D car modeling, 3D car analysis, car suspension*



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