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The global dynamics of a vehicle can be defined into 14 degrees of freedom (DoF) distributed into three main sections, as illustrated in Figure 1.1: longitudinal, lateral, and vertical dynamics...

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1. Dynamic axle loads on a vehicle under arbitrary condition It is an important step in analysis of acceleration and braking performance because the axle loads determine the tractive effort obtainable at each axle. - acceleration - gradeability - maximum speed Forces: $W=mg = \text{weight @ C.G.} = \text{Weight @front wheel} = \text{Weight @rear wheel}$

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FUNDAMENTAL APPROACH TO MODELING The subject of "vehicle dynamics" is concerned with the movements of vehicles\p=m\automobiles, trucks, buses, and special-purpose vehicles\p=m\on a road surface. The movements of interest are acceleration and braking, ride, and turning.

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FUNDAMENTALS OF VEHICLE DYNAMICS (Bernoulli's Equation assumes incompressible flow, which is reasonable for automotive aerodynamics, whereas the equivalent relationship for compress ible flow is the Euler Equation.) The equation is: $P_{static} + P_{dynamic} = P_{total}$ $p_s + 1/2 \rho v^2 = p_t$ (4- 1) where:

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Book Description. Road Vehicle Dynamics: Fundamentals and Modeling with MATLAB®, Second Edition combines coverage of vehicle dynamics concepts with MATLAB v9.4 programming routines and results, along with examples and numerous chapter exercises. Improved and updated, the revised text offers new coverage of active safety systems, rear wheel steering, race car suspension systems, airsprings, four-wheel drive, mechatronics, and other topics.

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know the driving resistances and their influences on vehicle dynamics. understand the discrepancy between demands and limits of powertrain. understand the correlation between braking, wheel load and recovery of energy.

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New York Governor Andrew M. Cuomo announced a package of major clean transportation initiatives, including a " Make Ready " order approved by the New York State Public Service Commission (PSC) to advance New York ' s commitment to accelerate its transition to cleaner mobility.. The EV Make-Ready Program will be funded by investor-owned utilities in New York State.