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1. Dynamic axle loads on a vehicle under arbitrary condition It is an

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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: $W=mg$ =weight @ C.G.
?? = Weight @front wheel ?? = Weight @rear wheel

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Dynamics, and special-purpose

vehicles on a road surface. The movements of interest are acceleration and braking, ride, and turning.

Fundamentals of vehicle dynamics |

Thomas D. Gillespie ...

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assumes incompressible flow, which is reasonable for automotive aerodynamics, whereas the equivalent relationship for compressible flow is the Euler Equation.) The equation is: $P_{static} + P_{dynamic} = P_{total}$ $p_s + \frac{1}{2} \rho v^2 = p_t$ (4- 1) where:

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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,

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approved by the New York State

Public Service Commission (PSC) to

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Accelerate its transition to cleaner

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