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## Vehicle Dynamics Solution

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

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dynamics...

Fundamentals of vehicle  
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1. Dynamic axle loads on a  
vehicle under arbitrary  
condition It is an important  
step in analysis of



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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 ??

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**Solution** = Weight @rear wheel

Fundamentals of Vehicle  
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**Solution** 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

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Fundamentals of vehicle  
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Fundamentals of Vehicle



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DYNAMICS (Bernoulli's  
Equation assumes  
incompressible flow, which  
is reasonable for automotive

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

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know the driving resistances

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