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Fundamentals Of Vehicle Dynamics 1st

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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

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because the axle loads determine the tractive effort obtainable at each axle. - acceleration - gradeability - maximum speed Forces: $W=mg$
=weight @ C.G. $W_{ff} =$ Weight @front wheel $W_{rr} =$ Weight @rear wheel

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understand basic principles of accelerating and braking a car. 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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in which a typical railway passenger vehicle is modelled as a 35-degree-of-freedom multi-body system. A traditional ballasted track is modelled as two parallel continuous beams supported by a discrete-elastic foundation of three layers with sleepers and ballasts included.

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An Introduction to Theoretical and Computational Aerodynamics. 1st ed. New York, NY: John Wiley and Sons, 2003. ISBN: 0486428796. Another useful book for its discussion of aircraft performance and dynamics would be: Anderson, John D. Introduction to Flight. 5th ed. New York, NY: McGraw-Hill, 2004. ISBN: 0072990716.

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