

## Vehicle Dynamics

1. Static weight distribution, and it's modifying factors.
2. Cornering, weight distribution, side-skidding, and roll-over limits
3. Pull-force balance, resistances
4. Pull diagram, and consequences
5. Longitudinal slip, and tire forces
6. Lateral slip, and side forces
7. Ackermann condition of turning.
8. Neutral-, over-, and understeering conditions
9. Multi-mass dynamic models of vehicle suspension
10. Differential equation modelling of vehicle dynamics.