

0.1 Chassis

$$F_a = \frac{1}{2}\rho(d)C_dAv^2 \tag{1}$$

$$F_{c, long} = F_a + gm \sin(\theta_r(d)) \tag{2}$$

$$F_{c, n} = mg \cos(\theta_r(d)) \tag{3}$$

$$\dot{v} = mF_t \tag{4}$$