

Vehicle Parameters for reference.

Vehicle Parameters used for simulation of mathematical model

S.No	Parameters	Unit	Value
1	Vehicle mass	Kg	300
2	Vehicle front weight distribution		0.40
3.	Unsprung mass front	Kg	15
4	Unsprung mass rear	Kg	16
5	Sprung mass	Kg	238
6	Wheel track front	m	1.25
7	Wheel track rear	m	1.2
8	Wheel base	m	1.58
9	Dist of Cog from front axle	m	0.948
10	Dist of Cog from rear axle	m	0.632
11	Wheel rate front	N/m	27340
12	Wheel rate rear	N/m	34730
13	Spring rate front	N/m	48600
14	Spring rate rear	N/m	70880
15	Damping coefficient front	Ns/m	2070.39
16	Damping coefficient rear	Ns/m	2748.26