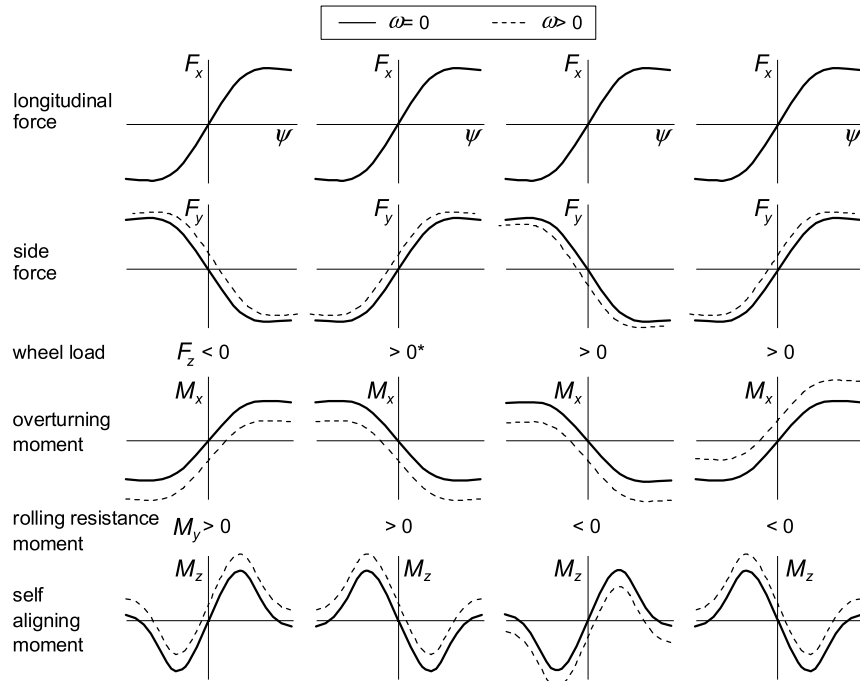


Appendix 1

Sign Conventions for Force and Moment and Wheel Slip

	$(V_x > 0)$	SAE	adapted SAE (Pacejka, this book)	ISO	adapted ISO (Besselink 2000)
side angle (top view)					
inclination/ camber angle (rear view)					
side slip		$\tan \alpha = \frac{V_{sy}}{V_x}$	$\tan \alpha = -\frac{V_{sy}}{V_x}$	$\tan \alpha = \frac{V_{sy}}{V_x}$	$\tan \alpha = -\frac{V_{sy}}{V_x}$
longitudinal slip		$\psi = -\frac{V_{sx}}{V_x}$	$\psi = -\frac{V_{sx}}{V_x}$	$\psi = -\frac{V_{sx}}{V_x}$	$\psi = -\frac{V_{sx}}{V_x}$
turn slip		not defined	$\sigma = -\frac{\dot{\kappa}}{V_x}$	not defined	$\sigma = -\frac{\dot{\kappa}}{V_x}$



*except for Chapter 9 where $F_N = -F_z > 0$