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5.1 Criteria for Good Handling; 5.1.1 ISO 4138: Steady-State Circular Test; 5.1.2 ISO 7401: Lateral Transient Response Test; 5.2 Single-Track Vehicle Modeling; 5.2.1 The Single-Track Model; Remarks Regarding Forces Acting on the Vehicle
5.2.2 Effect of Body Roll and Lateral Load TransferContact Forces According to Genta and Morello; Contact Forces According to Kiencke and Nielsen; 5.2.3 Alignment and Compliance Effects; 5.2.4 Effect of Combined Slip; 5.3 Steady-State Analysis; 5.3.1 Steady-State Solutions; Remark; 5.3.2 Understeer and Oversteer; Definition 1; Definition 2; Definition 3; Definition 4; 5.3.3 Neutral Steer Point; 5.4 Nonsteady-State Analysis; 5.4.1 Yaw Stability; Ad (i); Ad (ii); Ad (iii); 5.4.2 Frequency Response; 5.5 Graphical Assessment Methods; 5.5.1 Phase Plane Analysis; 5.5.2 Stability Diagram
5.5.3 The Handling Diagram5.5.4 The MMM Diagram; 5.5.5 The g-g Diagram; 6 The Vehicle-Driver Interface; 6.1 Assessment of Vehicle-Driver Performance; The Inter-Beat-Interval; The Heart Rate Variability; Pupil Diameter and Endogenous Eye Blinks; Blood Pressure Variability; Skin Conduction Response; Facial Muscle Activity; 6.2 The Vehicle-Driver Interface, A System Approach; 6.2.1 Open-Loop and Closed-Loop Vehicle Behavior; 6.2.2 The McRuer Crossover Model; 6.3 Vehicle-Driver Longitudinal Performance; 6.3.1 Following a Single Vehicle; 6.3.2 Driver Model and Driver State Identification
6.4 Vehicle-Driver Handling Performance

Sommario/riassunto

Essentials of Vehicle Dynamics explains the essential mathematical basis of vehicle dynamics in a concise and clear way, providing engineers and students with the qualitative understanding of vehicle handling performance needed to underpin chassis-related research and development. Without a sound understanding of the mathematical tools and principles underlying the complex models in vehicle dynamics, engineers can end up with errors in their analyses and assumptions, leading to costly mistakes in design and virtual prototyping activities. Author Joop P. Pauwelussen looks to rectify this by d

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