

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Principle
5	Variables
6	Simulation model parameters and requirements
6.1	General
6.2	Basic vehicle parameters
6.3	Estimated vehicle parameters
6.3.1	Principal moments of inertia
6.3.2	Tyre force characteristics
6.3.3	Damper characteristics
6.4	Electronic stability control
6.5	Braking system
6.6	Additional model requirements
7	Physical testing
7.1	General
7.2	Test method
7.3	Evaluation of test results
8	Simulation
8.1	General
8.2	Data recording
8.3	Documentation
9	Comparison of simulation and physical tests
9.1	General
9.2	Dynamic vehicle behaviour without ESC
9.2.1	Wheel lift-off
9.2.2	Comparison of yaw velocity and lateral acceleration
9.3	Dynamic vehicle behaviour with ESC
9.3.1	ESC intervention
9.3.2	Vehicle behaviour after ESC intervention
9.4	ESC safety margin gained from the measurements with and without ESC
Annex A	(informative) Validation report
A.1	General
A.2	Test conditions
A.3	Tolerance boundaries