

INTERNATIONAL
STANDARD

ISO
11838

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**Motorcycle and motorcycle-rider
kinematics — Vocabulary**

Cinématique relative au motocycle et à son conducteur — Vocabulaire

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Reference number
ISO 11838:1997(E)

ISO 11838:1997(E)**Foreword**

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 11838 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 22, *Motorcycles*.

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Motorcycle and motorcycle-rider kinematics — Vocabulary

1 Scope

1.1 This International Standard specifies symbols, definitions and conventions related to motorcycle and motorcycle-rider motions and kinematics and to the modelling thereof.

1.2 It does not deal with methods of measurement, nor with the units used in reporting the results, nor with accuracy.

1.3 The provisions of this International Standard apply to two-wheeled motorcycles as defined in ISO 3833.

1.4 This International Standard does not cover road motorcycles which are controlled by a pedestrian or which are used for the carriage of goods to the exclusion of persons.

1.5 This International Standard specifies terms, definitions and symbols for the following systems, parts and aspects:

steering system (clause 3)

suspension system (clause 4)

tyres and wheels (clause 5)

basic principles of axis systems and kinematics (clause 6)

directional dynamics (clause 7)

motorcycle motion characteristics (clause 8)

aerodynamic characteristics of the motorcycle-rider combination (clause 9)

riding postures and behaviours (clause 10)

tests (clause 11).

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the