

DIN EN ISO 19111:2005-05 (E)

Geographic information - Spatial referencing by coordinates (ISO 19111:2003);
English version EN ISO 19111:2005

Contents		Page
Foreword		3
Introduction		4
1	Scope.....	5
2	Conformance requirements	5
3	Normative references	5
4	Terms and definitions	5
5	Conventions	9
5.1	Symbols and abbreviated terms.....	9
5.2	UML notation	10
6	Definition of the conceptual schema for coordinate reference systems	11
6.1	Introduction	11
6.2	Coordinate reference system.....	11
6.2.1	Type of coordinate reference system	11
6.2.2	Single coordinate reference system	12
6.2.3	Compound coordinate reference system	12
6.3	Datum	13
6.3.1	Types of datums.....	13
6.3.2	Datum description.....	14
6.3.3	Prime meridian	14
6.3.4	Ellipsoid	15
6.4	Coordinate system.....	15
6.5	Coordinate operation — coordinate conversion and coordinate transformation.....	16
6.5.1	General	16
6.5.2	Coordinate conversion (including map projection)	17
6.5.3	Coordinate transformation.....	18
6.5.4	Requirements for describing a coordinate operation	18
6.5.5	Concatenated coordinate operation	20
6.6	Citations	21
6.7	Accuracy and precision of coordinates, coordinate operations, and parameters.....	22
6.8	Attributes to describe a coordinate reference system.....	23
Annex A (normative)	Conformance	26
Annex B (normative)	UML schemas	28
Annex C (informative)	Decision trees	31
Annex D (informative)	Geodetic relationships.....	33
Annex E (informative)	Examples	39