

ISO 25178-2:2012-04 (E)

Geometrical product specifications (GPS) - Surface texture: Areal - Part 2: Terms, definitions and surface texture parameters

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
3.1	General terms	1
3.2	Geometrical parameter terms	4
3.3	Geometrical feature terms	5
4	Field parameter definitions	8
4.1	Height parameters	8
4.2	Spatial parameters	9
4.3	Hybrid parameters	11
4.4	Functions and related parameters	11
4.5	Miscellaneous parameters	21
5	Determination of areal parameters for stratified functional surfaces of scale-limited surfaces	22
5.1	Calculating the parameters S_k , S_{mr1} and S_{mr2}	22
5.2	Calculating the equivalent straight line	22
5.3	Calculating the parameters S_{pk} and S_{vk}	22
5.4	Calculating the parameters S_{pq} , S_{vq} and S_{mq}	22
6	Feature characterization	24
6.1	General	24
6.2	Type of texture feature	25
6.3	Segmentation	25
6.4	Determining significant features	25
6.5	Section of feature attributes	27
6.6	Attribute statistics	28
6.7	Feature characterization convention	28
6.8	Named feature parameters	28
Annex A (informative)	Segmentation	31
Annex B (informative)	Fractal methods	36
Annex C (informative)	Basis for areal surface texture standards	41
Annex D (informative)	Concept diagrams	42
Annex E (informative)	Relation to the GPS matrix model	45
Bibliography		46