DIN EN ISO 25178-2:2012-09 (E)

Geometrical product specifications (GPS) - Surface texture: Areal - Part 2: Terms, definitions and surface texture pa rameters (ISO 25178-2:2012)

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5
3.1 General terms 5
3.2 Geometrical parameter terms 8
3.3 Geometrical feature terms 9

4 Field parameter definitions 12
4.1 Height parameters 12
4.2 Spatial parameters 13
4.3 Hybrid parameters 15
4.4 Functions and related parameters 15
4.5 Miscellaneous parameters 25

5 Determination of areal parameters for stratified functional surfaces of scale-limited surfaces 26
5.1 Calculating the parameters Sk, Smr1 and Smr2 26
5.2 Calculating the equivalent straight line 26
5.3 Calculating the parameters Spk and Svk 26
5.4 Calculating the parameters Spq, Svq and Smq 26

6 Feature characterization 28
6.1 General 28
6.2 Type of texture feature 29
6.3 Segmentation 29
6.4 Determining significant features 29
6.5 Section of feature attributes 31
6.6 Attribute statistics 32
6.7 Feature characterization convention 32
6.8 Named feature parameters 32

Annex A (informative) Segmentation 35

Annex B (informative) Fractal methods 40

Annex C (informative) Basis for areal surface texture standards 45

Annex D (informative) Concept diagrams 46

Annex E (informative) Relation to the GPS matrix model 49

Bibliography 50