

DIN EN ISO 16610-20:2015-12 (E)

Geometrical product specifications (GPS) - Filtration - Part 20: Linear profile filters: Basic concepts (ISO 16610-20:2015)

Contents	Page
Foreword	3
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Basic concepts	7
4.1 General.....	7
4.2 Discrete representation of data.....	8
4.3 Discrete representation of the linear profile filter.....	8
4.4 Discrete representation of the weighting function.....	8
5 Linear profile filters	11
5.1 Filter equations.....	11
5.2 Discrete convolution.....	11
5.3 Transfer function.....	12
5.4 Filter banks.....	15
Annex A (informative) Concept diagram	16
Annex B (informative) Relationship to the filtration matrix model	17
Annex C (informative) Relationship to the GPS matrix model	18
Bibliography	20