Table 9-1 Limits for the Transmission Characteristics for 2RC Long-Wavelength Cutoff Filters

Spatial Wavelength		Long-Wavelength Cutoffs				
mm	in.	0.08 mm (0.003 in.)	0.25 mm (0.010 in.)	0.8 mm (0.030 in.)	2.5 mm (0.100 in.)	8.0 mm (0.300 in.)
0.008	0.0003	97–103	. . .	. . .	. . .	. . .
0.010	0.0004	96–102	. . .	. . .	. . .	. . .
0.025	0.001	93–100	97–103	. . .	. . .	. . .
0.05	0.002	84–93	95–102	. . .	. . .	. . .
0.08	0.003	70–80	93–100	97–103	. . .	. . .
0.1	0.004	60–71	91–98	96–102	. . .	. . .
0.25	0.01	20–27	70–80	93–100	97–103	. . .
0.5	0.02	6–8	38–48	84–93	95–102	. . .
0.8	0.03	2–3	19–26	70–80	93–100	97–103
1.0	0.04	. . .	13–18	60–71	91–98	96–102
2.5	0.1	. . .	2–3	20–27	70–80	93–100
5.0	0.2	. . .	. . .	6–8	38–48	84–93
8.0	0.3	. . .	. . .	2–3	19–26	70–80
10.0	0.4	. . .	. . .	. . .	13–18	60–71
25.0	1.0	. . .	. . .	. . .	2–3	20–27
50.0	2.0	. . .	. . .	. . .	. . .	6–8
80.0	3.0	. . .	. . .	. . .	. . .	2–3

as a function of its spatial wavelength. This transmission characteristic is produced by a Gaussian profile weighting function as defined in this Section. The equation is as follows:

$$\frac{\text{Filter Output}}{\text{Filter Input}} = e^{-\pi(\alpha \lambda_s / \lambda)^2}$$

where $\alpha = \sqrt{\ln(2)/\pi} = 0.4697$ and λ_s is the roughness short-wavelength cutoff. Examples of the transmission characteristic for several values of λ_s (and also λ_c) are given in Fig. 9-2.

9-5.6 Weighting Function for the Roughness Short-Wavelength Cutoff.
The weighting function of the Gaussian phase correct filter for the roughness short-wavelength cutoff has a Gaussian form, similar to that to be discussed in para. 9-5.7 and shown in Fig. 9-3. The equation for the weighting function $S(x)$ is as follows:

$$S(x) = (\alpha \lambda_s)^{-1} e^{-\pi(x/\alpha \lambda_s)^2}$$

where x is the lateral position from the mean of the weighting function. The direct result of this filtering process is a smoothed profile, that is, one whose short wavelengths are attenuated.

9-5.7 Weighting Function for the Roughness Long-Wavelength Cutoff.
The weighting function of the Gaussian phase correct filter for the roughness long-wavelength cutoff (Fig. 9-3) has a Gaussian form. With the long-wavelength cutoff λ_c, the equation is as follows:

$$S(x) = (\alpha \lambda_c)^{-1} e^{-\pi(x/\alpha \lambda_c)^2}$$

In this case, the smoothed profile that results from applying the long-wavelength filter is the roughness mean line, and the roughness profile is found by subtracting this roughness mean line from the original measured profile.

9-5.8 Transmission Characteristic of the Gaussian-Filtered Waviness Profile (Roughness Mean Line).
The transmission characteristic of the roughness mean line is determined from the weighting function $S(x)$ by means of the Fourier transform (see Section 1) and is given in Fig. 9-4. The transmission characteristic for the mean line has the following equation:

$$\frac{\text{Filter Output}}{\text{Filter Input}} = e^{-\pi(\alpha \lambda_c / \lambda)^2}$$

9-5.9 Transmission Characteristic of the Gaussian-Filtered Roughness Profile.
The transmission characteristic of the Gaussian filtered roughness profile (see Figs. 9-2 and 9-5) is the complement to the transmission characteristic of the roughness mean line, as defined in para. 9-5.8, because the roughness profile is the difference between the measured profile and the roughness mean line. The equation is therefore given by the following:

$$\frac{\text{Filter Output}}{\text{Filter Input}} = 1 - e^{-\pi(\alpha \lambda_c / \lambda)^2}$$

9-5.10 Errors of Approximations to the Gaussian Filter.
No tolerance values are given for Gaussian filters as they were for 2RC filters in para. 9-4.3. Instead, a

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Surface Texture American Society of Mechanical Engineers,1986 **Surface Texture** American Society of Mechanical Engineers,1996 Computational Surface and Roundness Metrology Balasubramanian Muralikrishnan,Jayaraman Raja,2008-09-11 Computational Surface and Roundness Metrology provides an extraordinarily practical and hands on approach towards understanding the diverse array of mathematical methods used in surface texture and roundness analysis The book in combination with a mathematical package or programming language interface provides an invaluable tool for experimenting learning and discovering the many flavors of mathematics that are so routinely taken for granted in metrology Whether the objective is to understand the origin of that ubiquitous transmission characteristics curve of a filter we see so often yet do not quite comprehend or to delve into the intricate depths of a deceptively simple problem of fitting a line or a plane to a set of points this book describes it all in exhaustive detail From the graduate student of metrology to the practicing engineer on the shop floor this book is a must have reference for all involved in metrology instrumentation optics manufacturing and electronics *Handbook of Dimensional Measurement* Francis T. Farago,Mark A. Curtis,1994 Nineteen Fact Filled Charters that contain authoritative treatment of all aspects of dimensional measurement technology make Handbook of Dimensional Measurement the most readable and comprehensive guide available for engineers and technicians engages in the various stages of industrial production Design engineers manufacturing engineers tool and gage makers quality control specialists and reliability experts will find a wealth of practical data as well as complete coverage both basic and advanced of dimensional measurement techniques and equipment The Third Edition of this classic book has been completely revised to include the computer and electronics revolution in metrology Virtually every type of measurement instrument and machine even the newest devices can be found in these pages Hundreds of changes and additions and scores of new illustrations have been incorporated to assure that Handbook of Dimensional Measurement retains its status as the standard reference for the practitioner of dimensional measurement **Handbook of Engineering Practice of Materials and Corrosion** Jung-Chul (Thomas) Eun,2020-09-04 This handbook is an in depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries The book covers materials corrosion welding heat treatment coating test and inspection and mechanical design and integrity A central focus is placed on industrial requirements including codes standards regulations and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage and offers readers industry tested best practices rationales and case studies *Characterisation of Areal Surface Texture* Richard Leach,2024-05-31 This second edition delves into surface topography exploring its impact on the functionality of various components Beginning with an introduction to surface topography in Chapter 1 the subsequent chapters delve into the areal field parameters

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