Table 5.2 – Folias Factor, M_t, Based on the Longitudinal or Meridional Flaw Parameter, λ, for Cylindrical, Conical and Spherical Shells

λ	M_t	
	Cylindrical or Conical Shell	Spherical Shell
0.0	1.001	1.000
0.5	1.056	1.063
1.0	1.199	1.218
1.5	1.394	1.427
2.0	1.618	1.673
2.5	1.857	1.946
3.0	2.103	2.240
3.5	2.351	2.552
4.0	2.600	2.880
4.5	2.847	3.221
5.0	3.091	3.576
5.5	3.331	3.944
6.0	3.568	4.323
6.5	3.801	4.715
7.0	4.032	5.119
7.5	4.262	5.535
8.0	4.492	5.964
8.5	4.727	6.405
9.0	4.970	6.858
9.5	5.225	7.325
10.0	5.497	7.806
10.5	5.791	8.301
11.0	6.112	8.810
11.5	6.468	9.334
12.0	6.864	9.873
12.5	7.307	10.429
13.0	7.804	11.002
13.5	8.362	11.592
14.0	8.989	12.200
14.5	9.693	12.827
15.0	10.481	13.474
15.5	11.361	14.142

Table 5.2 – Folias Factor, M_t, Based on the Longitudinal or Meridional Flaw Parameter, λ, for Cylindrical, Conical and Spherical Shells

λ	M_t	
	Cylindrical or Conical Shell	Spherical Shell
16.0	12.340	14.832
16.5	13.423	15.544
17.0	14.616	16.281
17.5	15.921	17.042
18.0	17.338	17.830
18.5	18.864	18.645
19.0	20.494	19.489
19.5	22.219	20.364
20.0	24.027	21.272

Notes:

1. λ is the longitudinal or meridional flaw length parameter computed using Equation (5.6).

   Interpolation is permitted for intermediate values of λ, Figure 5.12 may also be used.

2. The equation for the cylindrical shell is shown below. If $\lambda > 20$, then use $\lambda = 20$ in the calculation.

$$M_t = \left(\begin{array}{l} 1.0010 - 0.014195\lambda + 0.29090\lambda^2 - 0.096420\lambda^3 + 0.020890\lambda^4 - \\ 0.0030540\lambda^5 + 2.9570\left(10^{-4}\right)\lambda^6 - 1.8462\left(10^{-5}\right)\lambda^7 + 7.1553\left(10^{-7}\right)\lambda^8 - \\ 1.5631\left(10^{-8}\right)\lambda^9 + 1.4656\left(10^{-10}\right)\lambda^{10} \end{array} \right)$$

3. The equation for the spherical shell is shown below. Note that the value of λ is limited by the inside circumference of the shell.

$$M_t = \left(\frac{1.0005 + 0.49001(\lambda) + 0.32409(\lambda)^2}{1.0 + 0.50144(\lambda) - 0.011067(\lambda)^2} \right)$$

4. Both s and c are based on the future corroded thickness, t_c.