INTERPOLATION

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================================================================
                        ISO 13992 Table 2
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Z [-]         Mz [Nm]      My [Nm]      BSL [mm]    Mz/BSL [N]    My/BSL [N]
0.5             5.0          18.0         200          25.0          90.0
1.0            10.0          37.0         225          44.4         164.4
1.5            15.0          55.0         243          61.7         226.3
2.0            20.0          75.0         258          77.5         290.7
2.5            25.0          94.0         270          92.6         348.1
3.0            30.0         114.0         280         107.1         407.1
3.5            35.0         134.0         290         120.7         462.1
4.0            40.0         154.0         298         134.2         516.8
4.5            45.0         175.0         306         147.1         571.9
5.0            50.0         196.0         314         159.2         624.2
5.5            55.0         218.0         320         171.9         681.2
6.0            60.0         239.0         327         183.5         730.9
6.5            65.0         261.0         333         195.2         783.8
7.0            70.0         284.0         339         206.5         837.8
7.5            75.0         307.0         344         218.0         892.4
8.0            80.0         330.0         350         228.6         942.9
8.5            85.0         353.0         355         239.4         994.4
9.0            90.0         377.0         360         250.0        1047.2
9.5            95.0         401.0         364         261.0        1101.6
10.0          100.0         425.0         369         271.0        1151.8
--------- interpolated from above ---------
10.5          105.0         450.0         373         281.2        1205.2
11.0          110.0         475.1         378         291.3        1258.0
11.5          115.0         500.5         382         301.2        1310.8
12.0          120.0         526.2         386         311.0        1363.7
12.5          125.0         552.2         390         320.7        1416.9
13.0          130.0         578.6         394         330.3        1470.1
13.5          135.0         605.3         397         339.8        1523.6
14.0          140.0         632.4         401         349.2        1577.2
14.5          145.0         659.7         404         358.5        1631.1
15.0          150.0         687.4         408         367.7        1685.1
```
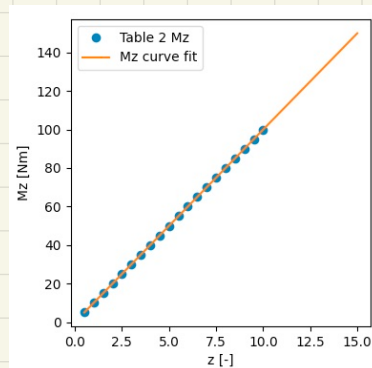
CURVE FIT

CURVE FIT

1) ORGINAL TABLE
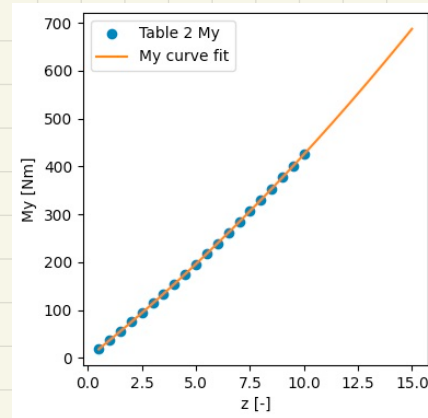2) EXTEND
3) CURVE FIT ? INTERPOLATE

$$M_z(z) = 10z$$

"AS A FUNCTION"

4) CURVE FIT ? INTERPOLATE
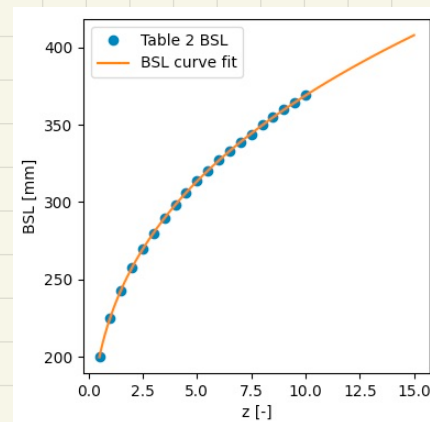
$$M_y(z) = a + bz + cz^2$$

"AS A FUNCTION"

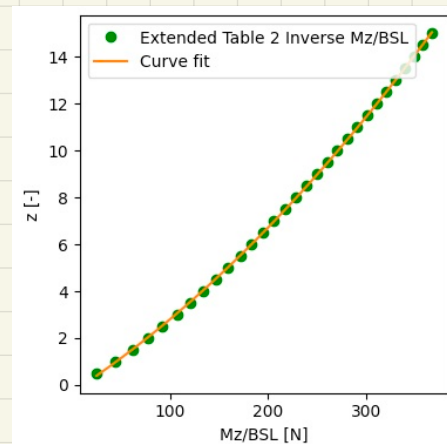5) CURVE FIT ? INTERPOLATE

$$BSL(z) = a + bz^c$$

"AS A FUNCTION"

6) CALCULATE FROM ORIGINAL TABLE 2 VALUES

7) CALCULATE FROM INTERPOLATED VALUES

8) CURVE FIT ENTIRE COLUMN

$$z\left(\frac{M_z}{BSL}\right) = a + b\left(\frac{M_z}{BSL}\right) + c\left(\frac{M_z}{BSL}\right)^2$$

"AS A FUNCTION"

9) CURVE FIT ENTIRE COLUMN

$$z\left(\frac{My}{BSL}\right) = a + b\left(\frac{My}{BSL}\right) + c\left(\frac{My}{BSL}\right)^2$$

"AS A FUNCTION"