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Thank you to Franz Sommerauer of Anton Paar GmbH for finding this error.

Equation (B.29) in the text as shown below is incorrect:

$$K_a = \frac{K_{mc} K_{rn}}{\Delta_r} \left(1 - \left(\frac{R_r}{R_m} \right)^{(2\beta)} \right) \left((\beta + 1) \left(\frac{R_r}{R_m} \right)^{(2\beta)} - 2\beta \left(\frac{R_r}{R_m} \right)^{(\beta+1)} + \beta - 1 \right)$$

Equation (B.29) should read:

$$K_a = \frac{K_{rn}}{\Delta_r} \left(1 - \left(\frac{R_r}{R_m} \right)^{(2\beta)} \right) + \frac{K_{mc}}{\Delta_r} \left((\beta + 1) \left(\frac{R_r}{R_m} \right)^{(2\beta)} - 2\beta \left(\frac{R_r}{R_m} \right)^{(\beta+1)} + \beta - 1 \right)$$

The above incorrect equation also appears immediately after equation (6.2) in the text. So it must be replaced by the corrected version as well.