

Correction to “Effect of Film Thickness on the Validity of the Sauerbrey Equation for Hydrated Polyelectrolyte Films”

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A series of equations in the article were found to be incorrect as a result of the difference between ω and f , where $\omega = 2\pi f$, during transcribing the equations. These equations are only approximations in the thin film limit of the full solution that was used for all of the calculations involved in this work. Thus, none of the data or conclusions are impacted by this error. The corrected equations are the following:

$$\Delta f \approx \frac{1}{\rho_q h_q} h \rho f \left(1 + \frac{2h^2 \chi}{3\delta^2(1 + \chi^2)} \right) \quad (5)$$

$$\Delta D \approx \frac{4h^3 \rho f}{3f_{ro} \rho_q h_q} \frac{\chi}{\delta^2(1 + \chi^2)} \quad (6)$$

$$\chi = \frac{\mu}{2\pi\eta f} \quad (7)$$

$$\delta = \sqrt{\frac{\eta}{\pi\rho f}} \quad (8)$$

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