Errata

Generalized Warburg impedance on realistic self-affine fractals: Comparative study of statistically corrugated and isotropic roughness

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1. $R_L^c(\omega)$ on page 582, column 2, para 2, after eq (8) should read as follows.

$$R_L^c(\omega) = -\frac{i\omega}{D}\frac{\mu L^{-(2\delta_c-1)}}{4\pi}\left[4 + L\sqrt{\frac{i\omega}{D}}\left(Log\left(\frac{i\omega}{D\left(\frac{1}{L}+\sqrt{\frac{1}{L^2}+\frac{i\omega}{D}}\right)^2}\right)\right) - 2\sqrt{\frac{D}{i\omega}}\ \sqrt{\frac{1}{L^2}+\frac{i\omega}{D}}\right].$$

2. $\langle Y_{Corr}(\omega)\rangle$ on page 583, column 1, eq (9) should read as follows.

$$\left\langle Y_{Corr}(\omega)\right\rangle \approx Y_W(\omega)\left[1+\frac{i\omega}{D}\left(\begin{array}{l} -\dfrac{\mu\ell^{-(2\delta_c-1)}}{\pi(2\delta_c-1)} - \dfrac{\mu}{2\pi^{3/2}(2\delta_c-1)}\Gamma(\delta_c+1/2)\Gamma(-\delta_c)\left(\dfrac{i\omega}{D}\right)^{\delta_c-1/2} \\ +\dfrac{\mu\ell^{-2\delta_c}}{2\pi(\delta_c)}\sqrt{\dfrac{D}{i\omega}} + \dfrac{\mu\ell^{-2(\delta_c-1)}}{4\pi(\delta_c-1)}\sqrt{\dfrac{i\omega}{D}} + \dfrac{\mu\ell^{2-2(\delta_c-1)}}{16\pi(2-\delta_c)}\left(\dfrac{i\omega}{D}\right)^{3/2} \end{array}\right)\right].$$

3. $\Psi(\omega)$ on page 583, column 2, para 2, eq (11) should read as:

$$\Psi(\omega) = \frac{\mu\ell^{-2\delta}}{4\pi\delta}\,{}_2F_1\left[\delta,\frac{-1}{2},\delta+1,\frac{iD}{\ell^2\omega}\right] - \frac{\mu L^{-2\delta}}{4\pi\delta}\,{}_2F_1\left[\delta,\frac{-1}{2},\delta+1,\frac{iD}{L^2\omega}\right].$$