Erratum

The dielectrophoretic and travelling wave forces generated by interdigitated electrode arrays: analytical solution using Fourier series

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The correct form of equation (20) is as follows:

$$\begin{aligned}
 E_{x,x}(x, y) &= \frac{\partial E_x}{\partial x} = -\frac{\partial E_y}{\partial y} = -E_{y,y}(x, y) \\
 &= \frac{2V_0 \sinh \hat{y}}{d^2} \left[\frac{\cos \hat{x}}{\cosh 2\hat{y} - \cos 2\hat{x}} + \frac{\sin \hat{x}}{\cosh 2\hat{y} + \cos 2\hat{x}} \right] \\
 E_{x,y}(x, y) &= \frac{\partial E_x}{\partial y} = \frac{\partial E_y}{\partial x} = E_{y,x}(x, y) \\
 &= \frac{2V_0 \cosh \hat{y}}{d^2} \left[\frac{\cos \hat{x}}{\cosh 2\hat{y} + \cos 2\hat{x}} - \frac{\sin \hat{x}}{\cosh 2\hat{y} - \cos 2\hat{x}} \right]. \quad (20)
 \end{aligned}$$