Corrections to “A Continuum Model of the Dynamics of Coupled Oscillator Arrays for Phase-Shifterless Beam Scanning”

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In the above paper\(^1\), the normalized \(u_0\) eigenfunction in equation (17) should not have the factor of \(\sqrt{2}\) in the numerator. All the other \(u_n\) and \(v_m\) eigenfunctions are correct as shown. This means that equation (23) should read

\[
\tilde{G}(x, x'; s) = \sum_{n=0}^{\infty} \eta_n \frac{\cosh(x' \sqrt{s_n}) \cosh(x \sqrt{s_n})}{(2a + 1)(s_n - s)} \\
- \sum_{m=0}^{\infty} \frac{2 \sinh(x' \sqrt{s_m}) \sinh(x \sqrt{s_m})}{(2a + 1)(s_m - s)}
\]

where \(\eta_{ij} = 2\) for \(i \neq j\) and 1 for \(i = j\). Similarly, this \(\eta\) factor should also replace the factor of 2 in the first summation of equation (24). Also, the lower limit on the third summation in equation (25) and that in the first summation of equation (26) should be 1 instead of 0. Finally the trigonometric functions in the second summation of equation (26) should be sines instead of cosines.

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