

# Corrections to “A New Efficient Unconditionally Stable Finite-Difference Time-Domain Solution of the Wave Equation”

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In [1],  $r_x$ ,  $r_y$ , and  $\mathbf{G}_M$  were mistyped. The correct values are

$$r_x = \frac{\sqrt{2}\Delta t}{\sqrt{\varepsilon\mu}\Delta x} \sin\left(\frac{k_x\Delta x}{2}\right)$$

$$r_y = \frac{\sqrt{2}\Delta t}{\sqrt{\varepsilon\mu}\Delta y} \sin\left(\frac{k_y\Delta y}{2}\right)$$

$$\mathbf{G}_M = \begin{bmatrix} (1+r_x^2)(\xi^2+1) - 2\xi & -(2r_x r_y)\xi \\ -(2r_x r_y)\xi & (1+r_y^2)(\xi^2+1) - 2\xi \end{bmatrix}.$$

## REFERENCES

- [1] S.-M. Sadrpour, V. Nayyeri, M. Soleimani, and O. M. Ramahi, “A new efficient unconditionally stable finite-difference time-domain solution of the wave equation,” *IEEE Trans. Antennas Propag.*, vol. 65, no. 6, pp. 3114–3121, Jun. 2017.

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