

Corrections to “The Eigenfunction Expansion of Dyadic Green’s Functions for Chirowaveguides”

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In the above paper,¹ two errors need to be corrected as follows:

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¹H. T. Hui and E. K. N. Yung, *IEEE Trans. Microwave Theory Tech.*, vol. 44, no. 9, pp. 1575–1583, Sept. 1996.

1) There are two sign mistakes in (34). The corrected equation should read:

$$\begin{aligned} & \nabla \cdot [\vec{E}_{\lambda_1 \lambda_2 n}(\pm h) \times \vec{H} - \vec{E} \times \vec{H}_{\lambda_1 \lambda_2 n}(\pm h)] \\ &= \vec{H} \cdot \nabla \times \vec{E}_{\lambda_1 \lambda_2 n}(\pm h) - \vec{E}_{\lambda_1 \lambda_2 n}(\pm h) \cdot \nabla \times \vec{H} \\ & \quad - \vec{H}_{\lambda_1 \lambda_2 n}(\pm h) \cdot \nabla \times \vec{E} + \vec{E} \cdot \nabla \times \vec{H}_{\lambda_1 \lambda_2 n}(\pm h) \\ &= - \left[\left(1 + \frac{\mu \gamma^2}{\varepsilon} \right) \vec{E}_{\lambda_1 \lambda_2 n}(\pm h) + j \frac{\mu \gamma}{\varepsilon} \vec{H}_{\lambda_1 \lambda_2 n}(\pm h) \right] \cdot \vec{J}. \end{aligned} \quad (34)$$

2) The sign “ \mp ” carried by the normalized constants, $I_{\lambda_1 \lambda_2 n}(\mp h)$ in (44), (45), and (47) should be reversed, which would reflect the correct normalized constants as $I_{\lambda_1 \lambda_2 n}(\pm h)$.