

Corrections

Corrections to “Simple Link-Budget Estimation Formulas for Channels Including Anomalous Reflectors”

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Abstract—In the above article [1], there is a mistake in one of the expressions that represents the equivalent path loss between the transmitter, a metasurface designed as a perfect anomalous reflector, and the receiver. More accurately, the representation of the metasurface as a gain parameter includes a term that should not be present.

Index Terms—Electromagnetic scattering by periodic structures, geometrical optics, metasurfaces.

CORRECTION

Equation (41) in [1] should read

$$G_m = \eta_{\text{eff}} \left(\frac{S_1}{\lambda} \right)^2 \cos \theta_i \cos \theta_r.$$

Due to a misprint, this formula in this article text contains an additional factor $(4\pi)^{-2}$. This misprint occurred only in (41), without affecting the related derivations in [1], nor the claims and results presented in this article. Unfortunately, this misprint propagated also to the conference proceedings paper [2, eq. (4)].

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REFERENCES

- [1] S. Kosulnikov, F. S. Cuesta, X. Wang, and S. A. Tretyakov, “Simple link-budget estimation formulas for channels including anomalous reflectors,” *IEEE Trans. Antennas Propag.*, vol. 71, no. 6, pp. 5276–5288, Jun. 2023.
- [2] S. Kosulnikov, F. S. Cuesta, X. Wang, A. Díaz-Rubio, and S. Tretyakov, “Link budget estimations for millimeter-wave links via anomalous reflectors,” in *Proc. 17th Eur. Conf. Antennas Propag. (EuCAP)*, Mar. 2023, pp. 1–3.

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