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# Corrections

## Correction to “A New Technique for Obtaining Wide-Angular Nulling in the Sum and Difference Patterns of Monopulse Antenna”

Jafar Ramadhan Mohammed and Khalil Hassan Sayidmarie

In the above letter published in the 2012 volume of the IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS [1], there is a missing author. The complete list of authors should be Jafar Ramadhan Mohammed and Khalil Hassan Sayidmarie.

### REFERENCES

- [1] J. R. Mohammed, “A new technique for obtaining wide-angular nulling in the sum and difference patterns of monopulse antenna,” *IEEE Antennas Wireless Propag. Lett.*, vol. 11, pp. 1245–1248, 2012.

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## Corrections to “Channel Sounding of Loaded Reverberation Chamber for Over-the-Air Testing of Wireless Devices—Coherence Bandwidth Versus Average Mode Bandwidth and Delay Spread”

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In the above letter published in the 2009 volume of the IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS [1], the following corrections are to be noted.

Equation (5) should read as follows:

$$\sigma_\tau = \sqrt{\frac{\sum_k P(\tau_k)\tau_k^2}{\sum_k P(\tau_k)} - \left[\frac{\sum_k P(\tau_k)\tau_k}{\sum_k P(\tau_k)}\right]^2}$$

$$P(\tau) = |h(\tau)|^2. \tag{5}$$

Table I should read as the version in this correction.

TABLE I

COMPARISONS OF DIFFERENT CONSTANTS  $\kappa$  RELATING DELAY SPREAD AND HALF-COHERENCE BANDWIDTHS IN (6) FOR THE TWO DIFFERENT DEFINITIONS IN THIS LETTER

| Case<br>RC = Reverberation chamber | Half coherent bandwidth definition |   |
|------------------------------------|------------------------------------|---|
|                                    | Complex ACF<br>$R_f(B_c) = 0.5$    | Envelope ACF<br>$\rho_f(B_{env}) = 0.5$ |
| Real-life environments [13]        | $1 < \kappa < 14$                  | $0.6 < \kappa < 8$                      |
| Theoretical values for RC [14]     | $\kappa = 2\pi / \sqrt{3}$         | $\kappa = 2\pi$                         |
| Measurements in RC [14]            | $\kappa = 2\pi / \sqrt{3}$         | $\kappa = 2\pi$ with error less than 5% |
| Measurements in RC, present paper  | $\kappa = 2\pi / \sqrt{3}$         | $\kappa = 2\pi$ with error less than 5% |
| Fundamental limit in [15]          | $\kappa < 4.4$                     | $\kappa < 7.7$                          |

The second  $B_{c,0.75}$  in the line right above (7) should be  $B_{c,0.5}$ .

Equation (7) should read as follows:

$$\kappa < 4.4. \tag{7}$$

### REFERENCES

- [1] X. Chen, P.-S. Kildal, C. Orlenius, and J. Carlsson, “Channel sounding of loaded reverberation chamber for over-the-air testing of wireless devices—Coherence bandwidth and delay spread versus average mode bandwidth,” *IEEE Antennas Wireless Propag. Lett.*, vol. 8, pp. 678–681, 2009.

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