
ERRATA

Erratum: “Algorithm for Multiplying Two Octonions” [*Radioelectronics and Communications Systems* 55 (10), 464 (2012)]

A. Cariow and G. Cariowa

West Pomeranian University of Technology, Szczecin, Poland

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Next errata have been found in the paper:

— Correct sentence at the end of page 465:

Let’s represent vector $\mathbf{Y}_{8 \times 1}$ in the form: $\mathbf{Y}_{8 \times 1} = [\mathbf{Y}_{4 \times 1}^{(0)}, \mathbf{Y}_{4 \times 1}^{(1)}]^T$.

— Correct equations at the page 466:

$$\mathbf{Y}_{4 \times 1}^{(0)} = \tilde{\mathbf{I}}_4^{(1)} \tilde{\mathbf{B}}_4^{(0,0)} \mathbf{X}_{4 \times 1}^{(0)} + \tilde{\mathbf{B}}_4^{(0,1)} \tilde{\mathbf{I}}_4^{(2)} \mathbf{X}_{4 \times 1}^{(1)},$$

$$\mathbf{Y}_{4 \times 1}^{(1)} = \tilde{\mathbf{I}}_4^{(1)} \tilde{\mathbf{B}}_4^{(1,0)} \mathbf{X}_{4 \times 1}^{(0)} + \tilde{\mathbf{I}}_4^{(3)} \tilde{\mathbf{B}}_4^{(1,1)} \tilde{\mathbf{I}}_4^{(2)} \mathbf{X}_{4 \times 1}^{(1)},$$

— Correct sentence at the page 467:

Let $\mathbf{1}_{2 \times 1} = [1 \ 1]^T$, $\hat{\mathbf{1}}_{1 \times 2} = [1 \ -1]$, $\check{\mathbf{1}}_{1 \times 2} = [-1 \ 1]$, and $\mathbf{H}_2 = \begin{bmatrix} 1 & 1 \\ 1 & -1 \end{bmatrix}$ be second-order Hadamard matrices where symbols “ \otimes ” and “ \oplus ” denote operations of direct sum and Kronecker product of matrices.

— Correct sentence at the page 470:

Rectangles denote operations of multiplying two elementary vectors by second-order Hadamard matrices $\mathbf{H}_2 = \begin{bmatrix} 1 & 1 \\ 1 & -1 \end{bmatrix}$.