

TABLE I  
RLS-CMA ALGORITHM

Initialization	$\mathbf{w}(0)=[1, \mathbf{0}_{1 \times (L-1)}]^T,$ $\mathbf{C}(0)=\delta^{-1}\mathbf{I}_{L \times L}, \delta = \text{small positive constant}$
Approximation and RLS update (For each iteration $n=1,2,\dots$ )	$\mathbf{z}(n) = \mathbf{x}(n)\mathbf{x}^H(n)\mathbf{w}(n-1)\mathbf{x}^H(n)\mathbf{w}(n-1)^{p-2}$ $\mathbf{h}(n) = \mathbf{z}^H(n)\mathbf{C}(n-1)$ $\mathbf{g}(n) = \mathbf{C}(n-1)\mathbf{z}(n)/(\lambda + \mathbf{h}(n)\mathbf{z}(n))$ $\mathbf{C}(n) = (\mathbf{C}(n-1) - \mathbf{g}(n)\mathbf{h}(n))/\lambda$ $e(n) = \mathbf{w}^H(n-1)\mathbf{z}(n) - 1$ $\mathbf{w}(n) = \mathbf{w}(n-1) + \mathbf{g}(n)e^*(n)$