

# 2D circular convolution using doubly block circulant matrices (cont.)

$$\mathbf{H} = \begin{bmatrix} \mathbf{H}_0 & \mathbf{H}_{M-1} & \mathbf{H}_{M-2} & \cdots & \mathbf{H}_1 \\ \mathbf{H}_1 & \mathbf{H}_0 & \mathbf{H}_{M-1} & \cdots & \mathbf{H}_2 \\ \mathbf{H}_2 & \mathbf{H}_1 & \mathbf{H}_0 & \cdots & \mathbf{H}_3 \\ \vdots & \vdots & \vdots & \cdots & \vdots \\ \mathbf{H}_{M-1} & \mathbf{H}_{M-2} & \mathbf{H}_{M-3} & \cdots & \mathbf{H}_0 \end{bmatrix}$$

Each  $\mathbf{H}_j$ , for  $j=1,\dots,M$ , is a circulant matrix with  $N$  columns (the number of **columns** of  $f[m,n]$ ) generated from the elements of the  $j$ -th **row** of  $h[m,n]$ .

# Circulant Matrices

**Michael Hoelscher**



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