A NOTE ON INVERSE-ORTHOGONAL TOEPLITZ MATRICES∗

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Abstract. In this note, inverse-orthogonal Toeplitz matrices are investigated, and it is proved that every such a matrix is equivalent to a circulant one. As a corollary, it is showed that a real Hadamard matrix of order $n > 2$ with Toeplitz structure is necessarily circulant.

∗Received by the editors on February 3, 2013. Accepted for publication on December 15, 2013. Handling Editor: Xingzhi Zhan.
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