

A NOTE ON SYMPLECTIC BLOCK REFLECTORS*

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Dedicated to Gérard Meurant on the occasion of his 60th birthday

Abstract. A symplectic block reflector is introduced. The parallel with the Euclidean block reflector is studied. Some important features of symplectic block reflectors are given. Algorithms to compute a symplectic block reflector that introduces a desired block of zeros into a matrix are developed.

Key words. Skew-symmetric scalar product, symplectic Householder transformation, block algorithm, symplectic QR-factorization

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