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EXPLICIT POLAR DECOMPOSITIONS OF COMPLEX MATRICES[*]

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Abstract. In [F. Uhlig, Explicit polar decomposition and a near-characteristic polynomial: The 2×2 case, *Linear Algebra Appl.*, 38:239–249, 1981], the author gives a representation for the factors of the polar decomposition of a nonsingular real square matrix of order 2. Uhlig's formulae are generalized to encompass all nonzero complex matrices of order 2 as well as all order n complex matrices with rank at least $n - 1$.

Key words. Polar decomposition.

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