

RQ3 - RQ decomposition of 3x3 matrix

Usage: [R,Q] = rq3(A)

Input: A - 3 x 3 matrix

Output: R - Upper triangular 3 x 3 matrix

Q - 3 x 3 orthonormal rotation matrix

Such that  $R*Q = A$

The signs of the rows and columns of R and Q are chosen so that the diagonal elements of R are +ve.

See also: DECOMPOSECAMERA

Follows algorithm given by Hartley and Zisserman 2nd Ed. A4.1 p 579

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February 2014 Incorporated modifications suggested by Mathias Rothermel to avoid potential division by zero problems