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function c=pseout(Q,w,epsilons,xrange,yrange,hx,hy)

% PSEOUT(Q,w,epsilon,xrange,yrange,hx,hy) estimates the spectrum and,
% for several epsilons, the boundaries of the epsilon-pseudospectra of
% a square matrix polynomial of the form
%
%
%

$$P(z) = A_m z^m + A_{m-1} z^{m-1} + \dots + A_1 z + A_0$$

%
% with a nonsingular leading coefficient  $A_m$ .
%
% The algorithm is based on the construction of exclusion discs
% centered only at exterior points.
%
% (Note that the command tic-toc prints the execution time.)
%
% INPUT: Q = {A0,A1,...,Am} array of the matrix-coefficients,
%         w = [w0,w1,...,wm] array of the corresponding weights,
%         epsilons = [eps1,eps2,...,epsN] array of epsilons,
%         xrange = [left bound on x-axis, right bound on x-axis],
%         yrange = [lower bound on y-axis, upper bound on y-axis],
%         hx = length of the grid for the x-axis,
%         hy = length of the grid for the y-axis.
%
% OUTPUT: c = contour plot points
%         (boundaries of the pseudospectra and eigenvalues of P(z)).
%
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%
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