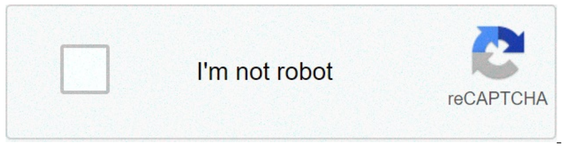

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Eigenvalues of a

Eigenvalues of a 2x2 matrix. Eigenvalues of a diagonal matrix. Eigenvalues of a matrix python. Eigenvalues of a matrix. Eigenvalues of a 3x3 matrix. Eigenvalues of a complex matrix. Eigenvalues of a matrix calculator. Eigenvalues of a symmetric matrix.

Eigenvalors and eigenvectors leave an array of a n'n in a field f. We remind you that a climbing l Ã £ f is said to be an autoevalue (characteristic value, or a latent root), if there is a vector other than zero x such ax = lx, and that such x is called vector (vector featured, or a latent vector) from one corresponding to autoevalue le that the pair (L, x) is called an eigen-pair of A. if l is an autoevalue of A, the equation: (L ia) x = 0, has a non-trivial solution (not zero) and, conversely. Thus, it is a homogeneous equation, it follows that I am an autoevalue of an IFF | L I-A | = 0. The FA expression (x) = | XI-A | It is a monic (the coefficient of the greater power of x in it is 1) polynomial in grade n. It is known as the characteristic pollinarium of A. Thus, an Eigen value of an IFF L is a zero (or root) of the characteristic polynÃ'mio (X) in F. Equation FA (X) = 0, is called a characteristic equation of A. Note that the coefficients of the characteristical polynÃ'mio are Field elements f under consideration. If f is an algebraically closed field (for example, ") we know that a precise degree polynÃ'mio has no need to race counted after multiplicity. So, for example, a complex matrix of N'n has the values of n eigen counted after multiplicity. Note that l = 0 is an ipoff eigenvalue | A | = 0, ie, one is a singular matrix. If an autoevalue L of A is known, the) corresponding (s) corresponding (s) can be obtained by elemental line operations (ERO's) performed in the increased matrix matrix part [AL | 0]. Example: Computation of values of Eigen and Eigen-vectors of a complex matrix of 2 ã, â €: The alternate multiplicity of an autoevalue L of A is OK louder than (XL) K is a FA (X) factor. The multiplicity geometric of an autoevalue l of a matrix a is the maximum number of linearly independent X eigen vectors of an associated to autoevalue l, which is the same as the dimension of the eigenspace of a bona Caged with the autovalore consisting of such ax = L X. This eigenspace is the same as N (A-L I). The geometric multiplicity of the AutoEnvalue 0 of is 2, while the AutoEnvalue 0 of is 1. The alternate multiplicities of autoenvalue 0 of both equal matrices 2. A self-valve collection of one in which An autoevalue is repeated according to the handwriting multiplicity is called a spectrum, and is denoted by S (A). Clearly, if s (a) = {l, l, ..., l}, fa (x) = p (x-l). Thus, for example, for an identity array: s (i) = {1, 1, ..., 1}, for a null matrix or zero s (0) = {0, 0 Ã â € € 0 }, s () = {1, 3}, s () = {1, 1}, s () = {2 + £ 5, 2-£ 5} and, s () = {0, 4} . A matrix B is said to be similar to a matrix A (written: B ~ a) If there is a unique matrix and such that C-1Ac = B. This interpreted as follows: instead of the standard base of the e1 = (1, 0, 0, 0) Â ¢, e2 = (0, 1, 0, 0) â ¢, ..., en = (0, 0 , 0, ..., 1) â € ¢, we chose the FN base to consist of the column vectors of the Matrix C, so the hue of the transformation appears to be B. It follows that an ~ A (reflexivity); B ^ implies a ~ B (symmetry); and a ~ B and B ~ C implies a transitiveness). The relationship of similarity, therefore, is an equivalence relationship. Consequently, the set of all n'n matrices on a Field F can be decomposed (written as a union) mutually exhaustive equivalence classes of all similar matrices. Fellow mothers and polynÃ'mio characteristics each of the following four q1 matrices, Q2, Q3, Q4 is referred to as a polynÃ'mio monic q (x) = XN + AN-1XN-1 + A1X + A0. It is easy to verify that the characteristic polinÃ'mio of an accompanying array of a monic polinÃ'mio q (x) is the own poyomial monic (x) (for example, for Q4, multiplication I-th Xi-Q4 line by X and add line I-1, I = N, N-1 Ã ¢ â € ¢ ¬ |, 2. (1, n) - The element is now q (x), the rest of the In the first line being zero and expanding the determinant by the first row Gives | xi-q4 | = Q (x). . MÃ © whole Danilevsky to polinÃ'mio caracterÃstico A £ transformaÃ§Ã the matrix type: A A N A f £ Â ° C-1ac, (C in the singular £) Ã © £ called the transformaÃ§Ã similarity. The C-1AC matrix A © considered similar to A. polinÃ'mio caracterÃstico remains invariant under the transformaÃ§Ã £ similarity, i.e. ©, matrix similarity tÃªm the same polinÃ'mio caracterÃstico:. The caracterÃstico polinÃ'mio of each of the above arrays mate with the polynomial Q (x) to find the caracterÃstico A polinÃ'mio, MA © whole Danilevsky applies a £ sucessÃ the semelhanÃ§a transforms it to reduce it to a form of Q4 companion matrix. To leave . (1) the x Â¬ (i.e. ©, copying a x); (2) K ¢ 2; (3) if K-1 XJ = 0 for all j Â³ k, x has the form redutÃvel wherein Q estÃ¡ already in a matrix form and accompanying caracterÃstico polinÃ'mio X equal to Ã © those of Q and Z. This ÃºltimO, MA © whole could be applied separately to Z. # (4) XJ K-1 to a 0 ° for some Â³ J K, replace the J-th line with the line th, K and J-th column to the k-th column (one of the similarity transformaÃ§Ã £) after the XK where K-1 to a ° Â¹: (i) Divide the K-th row by X XK-1 and K multiply the K x-th column K-1 for XK (£ is a transformaÃ§Ã the similarity). X It appears that: (ii) for all i k, subtract the i-th row xi1 times the line k-th and k-th column add xi1 times column i-th (is a £ transformaÃ§Ã the similarity). X looks like: (5) If k

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