

ON A GENERAL THEORY OF ANISOTROPY OF MATTER. THE SPECTRAL DECOMPOSITION OF THE CRYSTALLINE TENSOR: APPLICATION TO CRYSTALLOGRAPHY

PERICLES S. THEOCARIS  
DIMITRIOS P. SOKOLIS









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**7.4**



**K**eigenvalues and eigenvectors of  $A$  are the principal components of  $\mathbf{X}$ . The first principal component is the direction of maximum variance, the second is the direction of maximum variance orthogonal to the first, and so on. The principal components are shown in Figure 1. The first two principal components are shown in Figure 2. The first three principal components are shown in Figure 3. The first four principal components are shown in Figure 4. The first five principal components are shown in Figure 5. The first six principal components are shown in Figure 6. The first seven principal components are shown in Figure 7. The first eight principal components are shown in Figure 8. The first nine principal components are shown in Figure 9. The first ten principal components are shown in Figure 10.

**A** principal component analysis (PCA) is a technique for dimensionality reduction of data sets consisting of many variables. It is often used in pattern recognition and computer vision. PCA is a statistical method that uses linear algebra to find the principal components of a data set. The principal components are the directions of maximum variance in the data. The first principal component is the direction of maximum variance, the second is the direction of maximum variance orthogonal to the first, and so on. The principal components are shown in Figure 1. The first two principal components are shown in Figure 2. The first three principal components are shown in Figure 3. The first four principal components are shown in Figure 4. The first five principal components are shown in Figure 5. The first six principal components are shown in Figure 6. The first seven principal components are shown in Figure 7. The first eight principal components are shown in Figure 8. The first nine principal components are shown in Figure 9. The first ten principal components are shown in Figure 10.



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where  $\sigma_0$  is the standard deviation of the error term.

Reliable estimates of the eigenvalues and eigenvectors can be obtained by

spectral analysis of the autocorrelation function.

It is often necessary to estimate the parameters of the model by

and  $\sigma_0$  by the method of moments or maximum likelihood.

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The condition of the eigenvalues which are real and have positive real parts, and the eigenvectors corresponding to them, are called feasible eigenvectors. The dimension of the space of feasible eigenvectors is called the feasible dimension. If the feasible dimension is zero, then the system is said to be unstable. If the feasible dimension is one, then the system is said to be stable. If the feasible dimension is two or more, then the system is said to be marginally stable.



another figure. Figs. 1 and 2 show the initial state of the system about the origin. The plane  $\sigma_k \equiv \Theta_3 = 0$  is the plane of symmetry of the system and  $e_3$  is the eigenvector of the monodromy tensor  $T$  which represents the

initial state of the system. The initial state of the system is represented by the vector  $\sigma_k$ . The vector  $\sigma_k$  is the eigenvector of the monodromy tensor  $T$  which represents the initial state of the system.







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$\frac{\sigma_3}{\sigma_1}$  and  $\frac{\sigma_3 - \epsilon}{\sigma_1}$  by re-

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eigenvalues  $(\sigma_1, \sigma_2)$  and the other eigenvalues of the tensor  $\sigma_2$  are



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relation

between

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is called

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relationship.

For a linearly elastic

material, this relationship

is represented by a straight

line passing through the

origin of the stress-strain

graph. This is known as

the law of Hooke.

The slope of the line is

known as the modulus of

elasticity or Young's

modulus, denoted by  $E$ .

The stress-strain graph

for a linearly elastic

material is shown in

Figure 7.3. The graph

shows a linear relation

between stress and strain.

The slope of the line is

the modulus of elasticity.



to the deviation of the eigenvalues from the symmetric case. The deviations are plotted in Fig. 7.4. The eigenvalues lie along the circle  $\sigma_3 = \pm i\omega$ , and the deviations are proportional to  $\sin(\omega t)$ . The deviations are zero at  $t = 0$  and  $\pi/2$ , and they are maximum at  $t = \pi/4$  and  $3\pi/4$ .

7.4. **Exercises**



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where the strain tensor rank is established there is no distortion of the crystal lattice. Hence the distortion quantity is zero.

completely different class of density functionals the one according to which the compression of the crystal lattice is taken into account by the tetragonal distortion of the crystal lattice. In this case the distortion quantity is non-zero.

isotropic distortion of the crystal lattice. This is the case when the crystal lattice is compressed in all directions by the same amount.



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THEATRICAL GIFT BOXES

THEATRICAL GIFT WRAPPERS

THEATRICAL GIFT CARDS

THEATRICAL GIFT ENVELOPES

THEATRICAL GIFT BAGS

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THEATRICAL GIFT BAGS



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