

Chapter 8 Matrices and vector spaces

8.16 Diagonalization of matrices

A linear operator A is represented in a basis $\vec{e}_i, i = 1, 2, \dots, N$

A new basis is given by $\vec{x}^j = \sum_{i=1}^N S_{ij} \vec{e}_i$ and $A' = S^{-1} A S$

If $\vec{x}^j$ are chosen to be the eigenvectors of A ($A \vec{x}^j = \lambda_j \vec{x}^j$),

and S is expressed as $S = \begin{pmatrix} \uparrow & \uparrow & \uparrow & \dots & \uparrow \\ \vec{x}^1 & \vec{x}^2 & \vec{x}^3 & \dots & \vec{x}^N \\ \downarrow & \downarrow & \downarrow & \dots & \downarrow \end{pmatrix}$.

$S_{ij} = x_i^j$ represent the components of the j th eigenvector

$$\begin{aligned} A'_{ij} &= (S^{-1} A S)_{ij} = \sum_k \sum_l S_{ik}^{-1} A_{kl} S_{lj} = \sum_k \sum_l S_{ik}^{-1} A_{kl} x_l^j = \sum_k \sum_l S_{ik}^{-1} \lambda_j x_l^j \\ &= \sum_k \sum_l \lambda_j S_{ik}^{-1} S_{lj} = \lambda_j \delta_{ij} \end{aligned}$$

$$A' = \begin{pmatrix} \lambda_1 & 0 & \vdots & 0 \\ 0 & \lambda_2 & \vdots & 0 \\ \vdots & \vdots & \vdots & 0 \\ 0 & 0 & 0 & \lambda_N \end{pmatrix} \Rightarrow \text{Tr} A' = \text{Tr} A = \sum_{i=1}^N \lambda_i \quad \text{and} \quad |A'| = |A| = \prod_{i=1}^N \lambda_i$$

Matrices And Vector Spaces

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