

Chap. 7. Linear Algebra: Matrix Eigenvalue Problems

$$\underline{\underline{A}} \underline{\underline{x}} = \lambda \underline{\underline{x}}$$

square matrix unknown vector unknown scalar

$\underline{x} = \underline{0}$: (no practical interest)

$\underline{x} \neq \underline{0}$: eigenvectors of $\underline{\underline{A}}$; exist only for certain values of λ (eigenvalues or characteristic roots)

→ Multiplication of $\underline{\underline{A}}$ = same effect as the multiplication of \underline{x} by a scalar λ .

→ Important to determine the stability of chemical & biological processes


- Eigenvalue: special set of scalars associated with a linear systems of equations.
Each eigenvalue is paired with a corresponding eigenvectors.

7.1. Eigenvalues, Eigenvectors

- Eigenvalue problems: $\underline{\underline{A}} \underline{\underline{x}} = \lambda \underline{\underline{x}}$ or $(\underline{\underline{A}} - \lambda \underline{\underline{I}}) \underline{\underline{x}} = \underline{0}$
eigenvectors eigenvectors Set of eigenvalues: spectrum of A

The Algebraic Eigenvalue Problem

**G. M. L. Gladwell, Tahbaldar, U.
C, University of Waterloo. Solid
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