

Hermitian and Skew-Hermitian Forms

The concept of a quadratic form (Sec. 8.4) can be extended to complex. We call the numerator $\bar{\mathbf{x}}^T \mathbf{A} \mathbf{x}$ in (1) a **form** in the components x_1, \dots, x_n of \mathbf{x} , which may now be complex. This form is again a sum of n^2 terms

$$\begin{aligned} \bar{\mathbf{x}}^T \mathbf{A} \mathbf{x} &= \sum_{j=1}^n \sum_{k=1}^n a_{jk} \bar{x}_j x_k \\ &= a_{11} \bar{x}_1 x_1 + \cdots + a_{1n} \bar{x}_1 x_n \\ &\quad + a_{21} \bar{x}_2 x_1 + \cdots + a_{2n} \bar{x}_2 x_n \\ &\quad + \cdots \cdots \cdots \\ &\quad + a_{n1} \bar{x}_n x_1 + \cdots + a_{nn} \bar{x}_n x_n. \end{aligned} \quad (7)$$

\mathbf{A} is called its **coefficient matrix**. The form is called a **Hermitian** or **skew-Hermitian form** if \mathbf{A} is Hermitian or skew-Hermitian, respectively. *The value of a Hermitian form is real, and that of a skew-Hermitian form is pure imaginary or zero.* This can be seen directly from (2) and (3) and accounts for the importance of these forms in physics. Note that (2) and (3) are valid for any vectors because, in the proof of (2) and (3), we did not use that \mathbf{x} is an eigenvector but only that $\bar{\mathbf{x}}^T \mathbf{x}$ is real and not 0.

EXAMPLE 6 Hermitian Form

For \mathbf{A} in Example 2 and, say, $\mathbf{x} = [1 + i \quad -5i]^T$ we get

$$\bar{\mathbf{x}}^T \mathbf{A} \mathbf{x} = [1 - i \quad -5i] \begin{bmatrix} 4 & 1 - 3i \\ 1 + 3i & 7 \end{bmatrix} \begin{bmatrix} 1 + i \\ -5i \end{bmatrix} = [1 - i \quad -5i] \begin{bmatrix} -4(1 + i) + (1 - 3i) \cdot 5i \\ (1 + 3i)(1 + i) + 7 \cdot 5i \end{bmatrix} = 223. \quad \blacksquare$$

Clearly, if \mathbf{A} and \mathbf{x} in (4) are real, then (7) reduces to a quadratic form, as discussed in the last section.

PROBLEM SET 8.5

1–6 EIGENVALUES AND VECTORS

Is the given matrix Hermitian? Skew-Hermitian? Unitary? Find its eigenvalues and eigenvectors.

1. $\begin{bmatrix} 6 & i \\ -i & 6 \end{bmatrix}$

2. $\begin{bmatrix} i & 1 + i \\ -1 + i & 0 \end{bmatrix}$

3. $\begin{bmatrix} \frac{1}{2} & i\sqrt{\frac{3}{4}} \\ i\sqrt{\frac{3}{4}} & \frac{1}{2} \end{bmatrix}$

4. $\begin{bmatrix} 0 & i \\ i & 0 \end{bmatrix}$

5. $\begin{bmatrix} i & 0 & 0 \\ 0 & 0 & i \\ 0 & i & 0 \end{bmatrix}$

6. $\begin{bmatrix} 0 & 2 + 2i & 0 \\ 2 - 2i & 0 & 2 + 2i \\ 0 & 2 - 2i & 0 \end{bmatrix}$

7. **Pauli spin matrices.** Find the eigenvalues and eigenvectors of the so-called *Pauli spin matrices* and show that $\mathbf{S}_x \mathbf{S}_y = i\mathbf{S}_z$, $\mathbf{S}_y \mathbf{S}_x = -i\mathbf{S}_z$, $\mathbf{S}_x^2 = \mathbf{S}_y^2 = \mathbf{S}_z^2 = \mathbf{I}$, where

$$\mathbf{S}_x = \begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}, \quad \mathbf{S}_y = \begin{bmatrix} 0 & -i \\ i & 0 \end{bmatrix},$$

$$\mathbf{S}_z = \begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix}.$$

8. **Eigenvectors.** Find eigenvectors of \mathbf{A} , \mathbf{B} , \mathbf{C} in Examples 2 and 3.

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