

## SOLUTIONS TO CHAPTER 2

### Background

**2.1** The DFT of a sequence  $x(n)$  of length  $N$  may be expressed in matrix form as follows

$$\mathbf{X} = \mathbf{W}\mathbf{x}$$

where  $\mathbf{x} = [x(0), x(1), \dots, x(N-1)]^T$  is a vector containing the signal values and  $\mathbf{X}$  is a vector containing the DFT coefficients  $X(k)$ ,

- (a) Find the matrix  $\mathbf{W}$ .
- (b) What properties does the matrix  $\mathbf{W}$  have?
- (c) What is the inverse of  $\mathbf{W}$ ?

**Solution**

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(a) The DFT of a sequence  $x(n)$  of length  $N$  is

$$X(k) = \sum_{n=0}^{N-1} x(n)e^{-j\frac{2\pi}{N}nk} = \sum_{n=0}^{N-1} x(n)W_N^{nk}$$

where  $W_N = e^{-j\frac{2\pi}{N}}$ . If we define

$$\mathbf{w}_k^{H^T} = [1, W_N^k, W_N^{2k}, \dots, W_N^{k(N-1)}]$$

then  $X(k)$  is the inner product

$$X(k) = \mathbf{w}_k^{H^T} \cdot \mathbf{x}$$

Arranging the DFT coefficients in a vector we have,

$$\mathbf{X} = \begin{bmatrix} X(0) \\ X(1) \\ \vdots \\ X(N-1) \end{bmatrix} = \begin{bmatrix} \mathbf{w}_0^{H^T} \mathbf{x} \\ \mathbf{w}_1^{H^T} \mathbf{x} \\ \vdots \\ \mathbf{w}_{N-1}^{H^T} \mathbf{x} \end{bmatrix} = \mathbf{W}\mathbf{x}$$

where

$$\mathbf{W} = \begin{bmatrix} \mathbf{w}_0^{H^T} \\ \mathbf{w}_1^{H^T} \\ \vdots \\ \mathbf{w}_{N-1}^{H^T} \end{bmatrix} = \begin{bmatrix} 1 & 1 & 1 & \dots & 1 \\ 1 & W_N & W_N^2 & \dots & W_N^{N-1} \\ \vdots & \vdots & \vdots & \ddots & \vdots \\ 1 & W_N^{N-1} & W_N^{2(N-1)} & \dots & W_N^{(N-1)^2} \end{bmatrix}$$

(b) The matrix  $\mathbf{W}$  is symmetric and nonsingular. In addition, due to the orthogonality of the complex exponentials,

$$\mathbf{w}_k^{H^T} \cdot \mathbf{w}_l = \sum_{n=0}^{N-1} e^{-j\frac{2\pi}{N}n(k-l)} = \begin{cases} N & : k = l \\ 0 & : k \neq l \end{cases}$$

it follows that  $\mathbf{W}$  is orthogonal.

(c) Due to the orthogonality of  $\mathbf{W}$ , the inverse is

$$\mathbf{W}^{-1} = \frac{1}{N} \mathbf{W}^{H^T}$$

# Solution Manual Of Statistical Digital Signal Processing

**L Reisser**



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*Fundamentals of Digital Signal Processing* Ludeman, 1986-05      *Subject Guide to Books in Print*, 1993      *Forthcoming Books* Rose Arny, 2003

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**Solutions Manual Digital Signal Processing** William D. Stanley, Gary R. Dougherty, 1984      **A Course in Digital Signal Processing** Boaz Porat, 1996-11      *International Journal of Electrical Engineering Education*, 1990

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