



PROBLEM 13.1:

$$x[n] = 3 + 2e^{j0.2\pi n} + 2e^{-j0.2\pi n} - 7je^{j0.7\pi n} + 7je^{-j0.7\pi n}$$

\swarrow $7e^{j\pi/2}$ \swarrow $7e^{j\pi/2}$
 \searrow $7e^{-j\pi/2}$ \searrow $7e^{-j\pi/2}$

(a)

$\hat{\omega} = -0.2\pi$ is same as $\hat{\omega} = 2\pi - 0.2\pi = 1.8\pi$
 $\hat{\omega} = -0.7\pi \rightarrow \hat{\omega} = 2\pi - 0.7\pi = 1.3\pi$



(b) $x_b[n] = x[n]e^{j0.4\pi n}$

All frequencies will be increased by 0.4π

$0 \rightarrow 0.4\pi$ $0.7\pi \rightarrow 1.1\pi$ $1.8\pi \rightarrow 2.2\pi$
 $0.2\pi \rightarrow 0.6\pi$ $1.3\pi \rightarrow 1.7\pi$ $\leftarrow = 2.2\pi - 2\pi = 0.2\pi$



(c) $(-1)^n = e^{j\pi n}$, so all frequencies increase by π .

$0 \rightarrow \pi$ $0.7\pi \rightarrow 1.7\pi$ $1.8\pi \rightarrow 2.8\pi \rightarrow 0.8\pi$
 $0.2\pi \rightarrow 1.2\pi$ $1.3\pi \rightarrow 2.3\pi \rightarrow 2.3\pi - 2\pi = 0.3\pi$



Signal Processing First Solution Chapter 13

Steven A. Tretter



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presentation of systems concepts and analysis techniques Use of MATLAB helps students to understand what the mathematical abstractions represent which helps them to understand the behavior of a variety of systems In response to a wide range of signal inputs The software provides students with instantaneous feedback which encourages them to explore problems further Topics covered in the text include signals systems convolution Fourier series and transforms Laplace transforms analog filters sampling the discrete time Fourier transform DTFT FFT z transforms and digital filters All basic concepts are illustrated by worked examples End of chapter problems include simple drills as well as more challenging exercises that develop or extend the concepts covered A unique but optional feature of this text is the software supplied on disk which contains ready to run demonstrations interactive programs and full fledged general purpose programs The software runs under MATLAB and includes routines developed for plotting functions generating random signals regular and periodic convolution analytical and numerical solution of differential and difference equations Fourier analysis frequency response asymptotic Bode plots closed form expressions for Laplace and z transforms and inverse transforms classical analog filter design sampling quantization interpolation FIR and IIR filter design using various methods and more So as not to affect the continuity and logical flow of the text material the programs are described and used only in the accompanying documentation on disk A MATLAB appendix to each chapter lists the appropriate programs and each section that can be tied to the software is marked

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