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quant\_lab1.m – This script simulates the distortion from an R-bit quantizer and computes the SNR for the signal to quantization noise. The signal to be quantized is either a sine wave generated in the script or a signal read in from a wave file. The script also plots the average spectra for both the original and quantized signals.

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MATLAB can be used for the calculation of the fourier series coefficient of any discrete-time signal using a predefined function called fast fourier transform or by developing a code based on the basic

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definition of the discrete-time Fourier series. Signals & Systems Lab.-Manual(2) MATLAB-2007

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MATLAB is used to find the direct and inverse Z-transforms. The analysis of two-dimensional signals and systems is aided by the application of the two-dimensional Z-transform, converting the convolution into product of polynomials and making possible to have algebraic methods for stability testing. Select Chapter 11 - Discrete Fourier Analysis

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