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Signals and systems using MATLAB / Luis F. Chaparro. p. cm. ISBN 978-0-12-374716-7 1. Signal processing–Digital techniques. 2. System analysis. 3. MATLAB. I. Title. TK5102.9.C472 2010 621.382'2–dc22 2010023436 British Library Cataloguing-in-Publication Data A catalogue record for this book is available from the British Library.

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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.

Matlab for Signals and Systems Lab EE422G

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Chaparro-Akan — Signals and Systems using MATLAB 0.8 (d) If $z(t) = x(t) + y(t) = A\cos(\Omega t) + A\sin(\Omega t)$, the phasor corresponding to $z(t)$ is the sum of the phasors Ae^{j0} , corresponding to $A\cos(\Omega t)$, with the phasor $Ae^{j\pi/2}$, corresponding to $A\sin(\Omega t)$, which gives $p = 2Ae^{j\pi/4}$ (equivalently the sum of a vector with length A and

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MATLAB Tutorial

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

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