

## *Signal Processing First Problem Solutions*

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### Signal Processing First - Rose-Hulman Institute of Technology

Signal Processing First Problem Solutions Array processing is a wide area of research in the field of signal processing that extends from the simplest form of 1 dimensional line arrays to 2 and 3 dimensional array geometries. Array structure can be defined as a set of sensors that are spatially

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The whole problem is to choose the correct specifications for the filter. 3 , since the purpose of this filter is to stop the frequency artifacts generated by the upsampling operation. The passband has to be decided on the basis of the bandwidth of the signal we want to pass and the desired complexity of the filter.

### Chapter 6: Problem Solutions - Naval Postgraduate School

Week7 Lab. Signal Processing First. Lab 07: Sampling, Convolution, and FIR Filtering. 1.4 Sampling and Aliasing Demo. In this demo, you can change the frequency of an input signal that is a sinusoid, and you can change the sampling frequency.

### Week7 Lab - advancedsignalsandsystems

Solution to Exercise 5.10.3. These numbers are powers-of-two, and the FFT algorithm can be exploited with these lengths. To compute a longer transform than the input signal's duration, we simply zero-pad the signal. Solution to Exercise 5.11.1. In discrete-time signal processing, an amplifier amounts to a multiplication, a very easy operation ...

### Solutions to Exercises in Chapter 5 | Open Textbooks for ...

Text may be used before the student has taken a course in circuits. DSP First and it's accompanying digital assets are the result of more than 20 years of work that originated from, and was guided by, the premise that signal processing is the best starting point for the study of electrical and computer engineering.

**9780136019251: DSP First (2nd Edition) - AbeBooks - James ...**

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Solutions to Exercises in Chapter 4. Because the signal is real-valued, the coefficients of the complex Fourier series have conjugate symmetry:  $c_{-k} = c_k^*$  or  $A_{-k} = A_k$  and  $B_{-k} = -B_k$ . After we add the positive-indexed and negative-indexed terms, each term in the Fourier series becomes . To obtain the classic Fourier series (4.11), we must have  $2 A_k = a_k$  and  $2 B_k = -b_k$  .

**Solutions to Exercises in Chapter 4 | Open Textbooks for ...**

EL 713: Digital Signal Processing Extra Problem Solutions Prof. Ivan Selesnick, Polytechnic University. 4.5 For the transfer function  $H(z) = z^{-1} + z^{-6}$  of an FIR linear-phase filter, (a) sketch the impulse response (b) what is the type of the filter (I, II, III, or IV)?

**EL 713: Digital Signal Processing Extra Problem Solutions**

Hence,  $\lambda = 4, -1$  and  $y_h(n) = c_1(n)4^n + c_2(-1)^n$ . Since 4 is a characteristic root and the excitation is  $x(n) = 4^n u(n)$ , we assume a particular solution of the form  $y_p(n) = k n 4^n u(n)$ . Then  $k n 4^n u(n) - 3k(n-1)4^{n-1}u(n-1) - 4k(n-2)4^{n-2}u(n-2) = 4^n u(n) + 2(4)^{n-1}u(n-1)$  . For  $n = 2$ ,  $k(32-12) = 42 + 8 = 24 \rightarrow k = 6/5$  .

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1.2.7 The impulse response of a discrete-time LTI system is  $h(n) = 2(n) + 3(n1) + (n2)$ . Find and sketch the output of this system when the input is the signal

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