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CHAPTER 2. Discrete-Time Signals and Systems 11 5. (a) Proof: If the sinusoidal signal  $\cos(\omega_0 n + \theta_0)$  is periodic in  $n$ , we need to find a period  $N_p$  that satisfy  $\cos(\omega_0 n + \theta_0) = \cos(\omega_0 n + \omega_0 N_p + \theta_0)$  for every  $n$ . Since  $f_0$ ,  $\omega_0 = 2\pi f_0$  is a rational number, we can substitute  $\omega_0 = 2\pi f_0 = 2\pi M/N$  into the previous periodic condition to have  $\cos(2\pi M/N \dots$

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First, digital computers are, by design, discrete-time devices, so discrete-time signals and systems includes digital computers. Second, almost all the important ideas in discrete-time systems apply equally to continuous-time systems. Alas, even discrete-time systems are too diverse for one method of analysis.

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i)  $z[m,n,k]$

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A discrete-time system is a device or algorithm that, according to some well-defined rule, operates on a discrete-time signal called the input signal or excitation to produce another discrete-time signal called the output signal or response. Mathematically speaking, a system is also a function.

## **Discrete-time signals and systems**

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Signal-processing systems may be classified along the same lines as signals. That is, continuous-time systems are systems for which both the input and the output are continuous-time signals, and discrete-time systems are those for which both the input and the output are discrete-time signals. Similarly, a digital system is a system for which

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The WGM resonances shifted as a function of the refractive index of the analyte solution, ... 610 9.5.7 Frequency analysis of signals and systems in the discrete time domain ...

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Discrete-Time Signals and Systems Z. Aliyazicioglu Electrical and

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Computer Engineering Department Cal Poly Pomona ECE 308 -6  
ECE 308-6 2 Analysis of Linear Time Invariant Systems (LTI)

Introduction Two basic methods for analyzing the response of LTI:

- The direct solution of the input-output equation for the linear system

## **ECE 308 Discrete-Time Signals and Systems**

Chapter 2: Discrete-Time Signals and Systems Discrete-Time  
Signals and Systems Reference: Sections 2.1 - 2.5 of John G.  
Proakis and Dimitris G. Manolakis, Digital Signal Processing:  
Principles, Algorithms, and Applications, 4th edition, 2007. Dr.  
Deepa Kundur (University of Toronto) Discrete-Time Signals and  
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Aly El Gamal ECE 301: Signals and Systems Homework Solution #1 Problem 3 Problem 3 A discrete-time signal  $x[n]$  is shown in Figure 3. Sketch and label carefully each of the following signals: (a)  $x[3n]$  (b)  $x[n]u[3n]$  (c)  $x[n-2]$  [n-2] Figure 3: The discrete-time signal  $x[n]$ . Solution Figure 4: Sketches for the resulting signals. 4

## **ECE 301: Signals and Systems Homework Solution #1**

5.3. Discrete-Time Impulse Response 5.3.1. Definition of Discrete-Time Impulse Response A linear time-invariant discrete-time system can be described by the discrete-time impulse response, which is defined as the response of the system to the impulse

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sequence.. 0, otherwise a , 0  $n \leq 6$  and  $x(n) = 0$  otherwise 1, 0  $n \leq 4$   
(3)  $x(n) = n - 1$  2

## 5. Time-Domain Analysis of Discrete-Time Signals and Systems

Determine if this discrete-time signal has finite energy, finite power and compare these characteristics with those of the continuous-time signal  $x(t)$  when  $\Omega_0 = \pi$  and when  $\Omega_0 = 3.2$  rad/s (an upper approximation of  $\pi$ ). Solution. The continuous-time signal  $x(t)$  has infinite energy, and so does the discrete-time signal  $x[n]$ , for both values ...

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