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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 f0, ω_0 2π 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(2π M N ...

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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 analy sis.

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A discrete-time system is a device or algorithm that, according to some well-dened 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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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 Systems2 / 36 Chapter 2: Discrete ...

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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 sequence.. 0, otherwise a , 0 n 6 and x (n) 0 otherwise 1, 0 n 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 Ω 0 = π and when Ω 0 = 3.2 rad/s (an upper approximation of π). Solution. The continuous-time signal x(t) has infinite energy, and so does the discrete-time signal x[n], for both values ...