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DISCRETE-TIME
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Second Edition
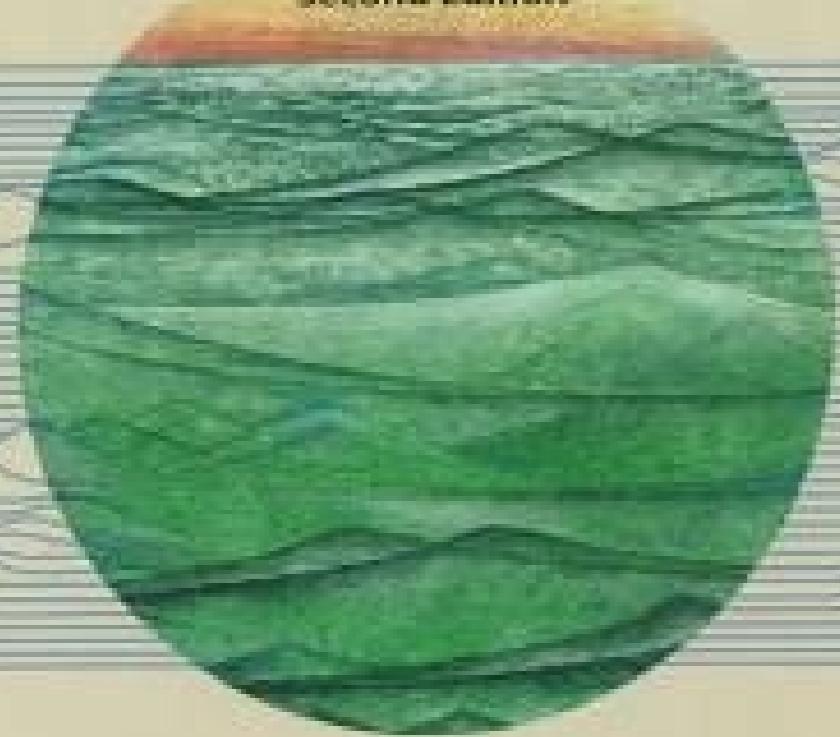
Alan V. Oppenheim • Ronald W. Schafer
with John R. Buck

2.16. (a) The homogeneous solution $y_h[n]$ solves the difference equation when $x[n] = 0$. It is in the form
$$y_h[n] = \sum A(c)^n,$$
where the c's solve the quadratic equation
$$c^2 - \tfrac{1}{4}c - \tfrac{1}{8} = 0$$

So for $c = 1/2$ and $c = -1/4$, the general form for the homogeneous solution is:
$$y_h[n] = A_1\left(\tfrac{1}{2}\right)^n + A_2\left(-\tfrac{1}{4}\right)^n$$

(b) Taking the z-transform of both sides, we find that
$$Y(z)\left(1 - \tfrac{1}{4}z^{-1} - \tfrac{1}{8}z^{-2}\right) = 3X(z)$$

and therefore
$$H(z) = \frac{Y(z)}{X(z)}$$
$$= \frac{3}{1 - 1/4z^{-1} - 1/8z^{-2}}$$
$$= \frac{3}{(1 + 1/4z^{-1})(1 - 1/2z^{-1})}$$
$$= \frac{1}{1 - 1/2z^{-1}} + \frac{2}{1 + 1/4z^{-1}}$$

The causal impulse response corresponds to assuming that the region of convergence extends outside the outermost pole, making
$$h_c[n] = \{(-1/4)^n + 2(1/2)^n\}u_n$$

The anti-causal impulse response corresponds to assuming that the region of convergence is inside the innermost pole, making
$$h_{ac}[n] = -\{(-1/4)^n + 2(1/2)^n\}u[-n-1]$$

(c) $h_c[n]$ is absolutely summable, while $h_{ac}[n]$ grows without bounds.

(d)
$$Y(z) = X(z)H(z)$$
$$= \frac{1}{1 - z^{-1}} \cdot \frac{3}{(1 + \tfrac{1}{4}z^{-1})(1 - \tfrac{1}{2}z^{-1})}$$
$$= \frac{1/3}{1 - \tfrac{1}{4}z^{-1}} + \frac{2/3}{1 - \tfrac{1}{2}z^{-1}}$$
$$y[n] = \tfrac{1}{3}\left(\tfrac{1}{2}\right)^n u[n] + 4(n+1)\left(\tfrac{1}{2}\right)^{n+1}u[n] + \tfrac{2}{3}\left(\tfrac{1}{2}\right)^n u[n]$$

Savvas Learning Company, formerly Pearson K12 Learning, creates K 12 curriculum and next-generation learning solutions and textbooks to improve student outcomes. Analog Devices is a global leader in the design and manufacturing of analog, mixed signal, and DSP integrated circuits to help solve the toughest engineering challenges. Attention Internet Explorer users: Analog.com no longer supports IE 11. CSE 101: Introduction to Computer Science (3 credits)Introduction to the use of computer hardware and software as tools for solving problems. Automated input devices and output methods (including pre-printed stationary and turnaround documents) as part of the solution. Using personal computers as effective problem solving tools for the present and the future. ... In computer science, a lookup table (LUT) is an array that replaces runtime computation with a simpler array indexing operation. The process is termed as "direct addressing" and LUTs differ from hash tables in a way that, to retrieve a value with key , a hash table would store the value in the slot () where is a hash function i.e. is used to compute the slot, while in the case of LUT, the ... A Fourier series (/ ' f or i,er,-i or /) is a sum that represents a periodic function as a sum of sine and cosine waves. The frequency of each wave in the sum, or harmonic, is an integer multiple of the periodic function's fundamental frequency.Each harmonic's phase and amplitude can be determined using harmonic analysis.A Fourier series may potentially contain an infinite ...

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