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$$u[n] = y[n + 1] \square$$

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0.4y[n]. Substituting this in the second equation we get after some. $y[n + 1] = s[n] - 0.4y[n] - 0.18y[n - 1] + 0.8y[n - 2]$. Making use of the first. $y[n] + 0.4y[n - 1] + 0.18y[n - 2] - 0.2y[n - 3] = 0.6x[n - 1] + 0.3x[n - 2] + 0.2x[n - 3]$.

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$$x(n) = \cos(2\pi f n t_s + f) + \cos(2\pi f n t_s)$$

where t_s is the time between your $x(n)$ samples, and f is a constant phase shift measured in radians.

An example $x(n)$

when $f = \pi/2$ is

shown in Figure

P1-13 where the $x(n)$

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n) sequence, represented by the circular dots, is a single sinusoid whose frequency is f_0 Hz.

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multichannel, discrete

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channel, continuous-

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A thorough understanding of digital signal processing fundamentals and techniques is essential for anyone whose work is concerned with signal processing applications. Digital Signal Processing begins with a discussion of the

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analysis and
representation of
discrete-time signal
systems, including
discrete-time
convolution,
difference equations,
the z-transform, and
the discrete-time
Fourier transform.

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Digital signal processing (DSP) is the use of digital processing, such as by computers or more specialized digital signal processors, to perform a wide variety of signal processing operations. The digital signals processed in this manner are a sequence of numbers that represent

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The text presents the methods for extracting the desired signals from the noise. Each

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pitch The discrete
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compression The Fast
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Relating operations in
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introduction, without the need for an extensive mathematical background. The authors lead the reader through the fundamental mathematical principles underlying the operation of key signal processing techniques, providing simple arguments and

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