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 time linear system 8 <:  $x(k+1) =$   
 $Ax(k)+Bu(k)$   $y(k) = Cx(k)+Du(k)$   $x(0) =$   
 $x_0$  Given the initial condition  $x(0)$  and  
 the input sequence  $u(k)$ ,  $k \geq 0$ , it is  
 possible to predict the entire sequence  
 of states  $x(k)$  and outputs  $y(k)$ ,  $k \geq 0$   
 The state  $x(0)$  summarizes all the past  
 history of the system Discrete-time linear  
 systems  $d[n]=a[n]-3a[n-1]+3a[n-2]-a[n-3]$  is equivalent to this set of  
 equations:  $d[n]=c[n]-c[n-1]$   
 $c[n]=b[n]-b[n-1]$   $b[n]=a[n]-a[n-1]$ .  
 As the first step, use the last equation to

eliminate  $b[n]$  and  $b[n - 1]$  from the  $c[n]$  equation:  $c[n] = (a[n] - a[n - 1]) - (a[n - 1] - a[n - 2]) = a[n] - 2a[n - 1] + a[n - 2]$ . Discrete-time Signals and Systems - MIT OpenCourseWare includes the design of model matching control systems. emphasizes the usefulness of MATLAB for studying discrete-time control systems — showing how to use MATLAB optimally to obtain numerical solutions that involve various types of vector-matrix operations, plotting response curves, and system design based on quadratic optimal control. presents many instructive examples and worked-out problems throughout the entire book. Discrete-Time Control Systems: Ogata, Katsuhiko ...discrete time control systems ogata solution manual PDF may

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Discrete-time linear system  $x(k+1) =$

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$+ - r(t) e(t) ADC \mu P DAC u(t) Plant ? ?$

$y(t)$  4

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$d[n]=a[n]-3a[n-1]+3a[n-2]-a[n-3]$   
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 $c[n]=(a[n]-a[n-1])-(a[n-1]-a[n-2])$   
 $= a[n]-2a[n-1]+a[n-2]$ .

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