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# Solutions To Digital Signal Processing 4th Edition

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Digital Signal Processing Problems And Solutions

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exam is 80 minutes • Please write your name and SID on every page of the exam • Some useful formulas: - N point Discrete Fourier Transform (DFT)  $X[k] = \sum_{n=0}^{N-1} x[n]e^{-j2\pi kn}$  - Inverse Discrete Digital Signal Processing Problems And Solutions  $u[n] = y[n + 1] - 0.4y[n]$ . 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.  $y[n] + 0.4y[n - 1] + 0.18y[n - 2] - 0.2y[n - 3] = 0.6x[n - 1] + 0.3x[n - 2] + 0.2x[n - 3]$ . Digital Signal Processing (Solution Manual) - 3rd Edition ... Solution Manual for Analog and Digital Signal Processing 2nd Edition by Ambardar Chapters 2 20. Full file at

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 First fold  $x(n)$  and then delay the resulting signal by four samples.  
 2. First delay  $x(n)$  by four samples and then fold the resulting signal. (c) Sketch the signal  $x(-n + 4)$ . (d) Compare the results in parts (b) and (c) and derive a rule for obtaining the signal  $x(-n + k)$  from  $x(n)$ .  
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1. First fold  $x(n)$  and then delay the resulting signal by four samples. 2. First delay  $x(n)$  by four samples and then fold the resulting signal. (c) Sketch the signal  $x(-n + 4)$ . (d) Compare the results in parts (b) and (c) and derive a rule for obtaining the signal  $x(-n + k)$  from  $x(n)$ .

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$$\begin{aligned}
 & - 0.4y[n] - 0.18y[n - 1] + 0.8y[n - 2]. & 0.18y[n - 2] - 0.2y[n - 3] = 0.6x[n - 1] + \\
 \text{Making use of the first.} & & 0.3x[n - 2] + 0.2x[n - 3]. \\
 & y[n] + 0.4y[n - 1] + & 
 \end{aligned}$$

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