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Find the response of the system s (n + 2) − 3 s (n + 1) + 2 s (n) = δ (n), when all the initial conditions are zero. Solution − Taking Z-transform on both the sides of the above equation, we get. S (z) Z 2 − 3 S (z) Z 1 + 2 S (z) = 1. ⇒ S (z) { Z 2 − 3 Z + 2 } = 1.

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For sophomore to senior-level courses in Digital Signal Processing and Signal Processing in departments of engineering and technology. Conveying to students a sense of excitement regarding DSP, this text provides thorough coverage of digital signal processing techniques and all essential theory--extensively supported by examples, but not dependent on calculus. It includes a variety of interesting and in-depth DSP explorations to help establish the link between theory and practice, and an introduction to hardware and software for digital signal processors.

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