

Discrete Time Signal Processing Oppenheim 3rd Edition Solution Pdf Torrent

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material may be reproduced, in any form or by any means, without permission in writing from the publisher.

2.1. (a) T(x[n]) = g[n]x[n]

- Stable: Let |x[n]| ≤ M then |T[x[n]| ≤ |g[n]|M. So, it is stable if |g[n]| is bounded.
- Causal: y₁[n] = g[n]x₁[n] and y₂[n] = g[n]x₂[n], so if x₁[n] = x₂[n] for all n < n₀, then y₁[n] = y₂[n] for all n < n₀, and the system is causal.
- · Linear

$$\begin{array}{rcl} T(ax_1[n]+bx_2[n]) & = & g[n](ax_1[n]+bx_2[n]\\ & = & ag[n]x_1[n]+bg[n]x_2[n]\\ & = & aT(x_1[n])+bT(x_2[n]) \end{array}$$

So this is linear.

· Not time-invariant:

$$T(x[n-n_0]) = g[n]x[n-n_0]$$

 $\neq y[n-n_0] = g[n-n_0]x[n-n_0]$

which is not TI.

• Memoryless: y[n] = T(x[n]) depends only on the n^{th} value of x, so it is memoryless.

(b)
$$T(x[n]) = \sum_{k=n_0}^{n} x[k]$$

- Not Stable: |x[n]| ≤ M → |T(x[n])| ≤ ∑ⁿ_{k=n₀} |x[k]| ≤ |n − n₀|M. As n → ∞, T → ∞, so not stable.
- Not Causal: T(x[n]) depends on the future values of x[n] when n < n0, so this is not causal.
- · Linear:

$$\begin{split} T(ax_1[n] + bx_2[n]) &= \sum_{k=n_0}^n ax_1[k] + bx_2[k] \\ &= a\sum_{k=n_0}^n x_1[n] + b\sum_{k=n_0}^n x_2[n] \\ &= aT(x_1[n]) + bT(x_2[n]) \end{split}$$

The system is linear.

· Not TI:

$$T(x[n - n_0]) = \sum_{k=n_0}^{n} x[k - n_0]$$

= $\sum_{k=0}^{n-n_0} x[k]$
 $\neq y[n - n_0] = \sum_{k=n_0}^{n-n_0} x[k]$

The system is not TI.

- Not Memoryless: Values of y[n] depend on past values for n > n₀, so this is not memoryless.
- (c) $T(x[n]) \sum_{k=n-n_0}^{n+n_0} x[k]$
 - Stable: $|T(x[n])| \le \sum_{k=n-n_0}^{n+n_0} |x[k]| \le \sum_{k=n-n_0}^{n+n_0} x[k]M \le |2n_0+1|M$ for $|x[n]| \le M$, so it is stable.
 - Not Causal: T(x[n]) depends on future values of x[n], so it is not causal.
 - Linear:

$$\begin{split} T(ax_1[n] + bx_2[n]) &= \sum_{k=n-n_0}^{n+n_0} ax_1[k] + bx_2[k] \\ &= a\sum_{k=n-n_0}^{n+n_0} x_1[k] + b\sum_{k=n-n_0}^{n+n_0} x_2[k] = aT(x_1[n]) + bT(x_2[n]) \end{split}$$

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