

Lecture 4 – 08/31/2015

- Basic System Properties
- Memory
 - The accumulator

- Invertibility
 - Why is it important for communication systems
- Causality
 - All memoryless systems are causal
 - Example 1.12

- Stability
 - Checking for instability through finding an example
 - Checking for stability needs proof
- Time Invariance
 - Examples
- Linearity
 - Examples
- Reading Assignment
 - Introduction to linear time invariant systems
 - Why do you think these two properties simplify analysis