

## Lecture 7 – 09/09/2015

Pages (104 – 115)

- Commutative Property of LTI Systems
  - Verified by substitution
- Distributive Property
  - Interpretation in terms of system interconnections – Figure 2.23
  - Example 2.10
- Associative Property
  - Figure 2.25
- Impulse response of the cascade of two LTI systems is the convolution of their individual impulse responses
- Impulse response for LTI systems with and without Memory
- Invertibility
  - LTI inverse
  - Example 2.11
  - Example 2.12
- Causality
  - Zero impulse response for negative time values
  - Examples
- Stability
  - Impulse response absolutely summable
  - Example 2.13