Lecture 3 – 08/28/2015

- Table 1.1
 - o Comparison between continuous-time and discrete-time exponentials
- Example 1.6
- Unit-impulse and unit-step functions
 - o Difference-Summation relationship
 - \circ Used for sampling
 - Continuous-time versions
 - Unit-step has a discontinuity at t=0
 - Differentiation-Integration relationship
 - Continuous approximation of the unit-step
 - Figure 1.39
 - The pulse that is short enough for a system idealization
 - o Example 1.7
- Systems
 - Examples 1.8 1.11 (as time permits)
- Reading Assignment
 - o Interconnections of Systems