**EE 229 Signals and Systems**

**Week 4 Summary**:

1. Properties of LTI systems inter-connections: parallel, cascade
2. Properties of LTI systems in terms of constraints on the impulse response : Memory, Invertibility, Causality, Stability
3. Differential and difference equations

**Homework exercises** (all problems from the textbook):

2.28 (a,d,f), 2.29 (a,b,e), 2.30, 2.31, 2.44, 2.49

Textbook: Alan V. Oppenheim and Alan S. Willsky with S.H. Nawab, Signals and Systems, Second Edition, PHI (Indian reprint: 2014)