## Week # 11 - Topics

**Chapter 4** (cont'd) Everything from Chapter 3, applied to $n^{th}$ order linear differential equations.

**§ 7.4** Basic theory of linear systems of differential equations: Superposition Principle, Existence and Uniqueness Theorem; Wronskians; Fundamental Set of Solutions (**FSS**); Fundamental Matrix (**FM**).

**§ 7.5** **Eigenvalue-Eigenvector Method** for solving linear systems of differential equations; phase portraits (**pplane**).