

## Lecture 11 – 09/23/2015

Pages (186 – 197)

- Linear Combinations of Harmonically Related Complex Exponentials
  - Fourier series representation
  - Harmonic components
  - Example 3.2 : Alternative forms of Fourier series
  
- Determination of the Fourier Series Representation
  - Equations 3.38 and 3.39
  - Examples 3.3 – 3.5
  
- Convergence of the Fourier Series
  - Finite series and approximation error
  - Convergence of the integral in Equation 3.39
  - Every continuous periodic signal has a Fourier series representation
  - Class of periodic signals with finite energy