ECE 233 Fall 2014 Lec: #30

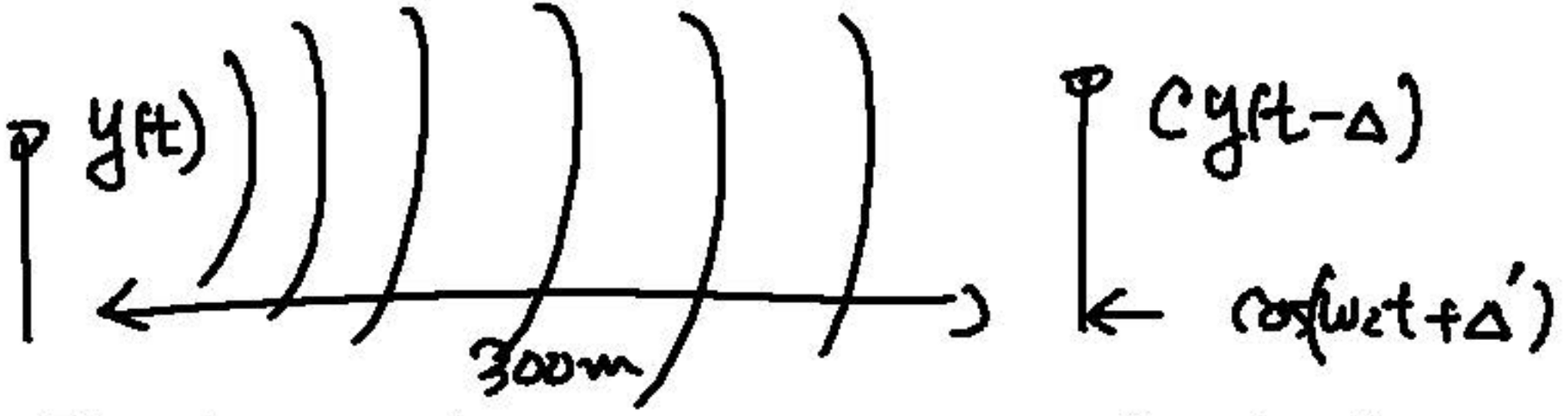
Announcements

1. Midterm 3 returning on this Friday.
2. MATLAB project due on 12/3
3. Final Exam on next Monday 19:30–

Review

- Signal
- system
  - LTI
    - TD: impulse response, convolution
    - FD: frequency response
    - LT
      - LCCDE
    - ZT
  - Sampling, interpolation, modulation (AM, FM), up/down sampling

D



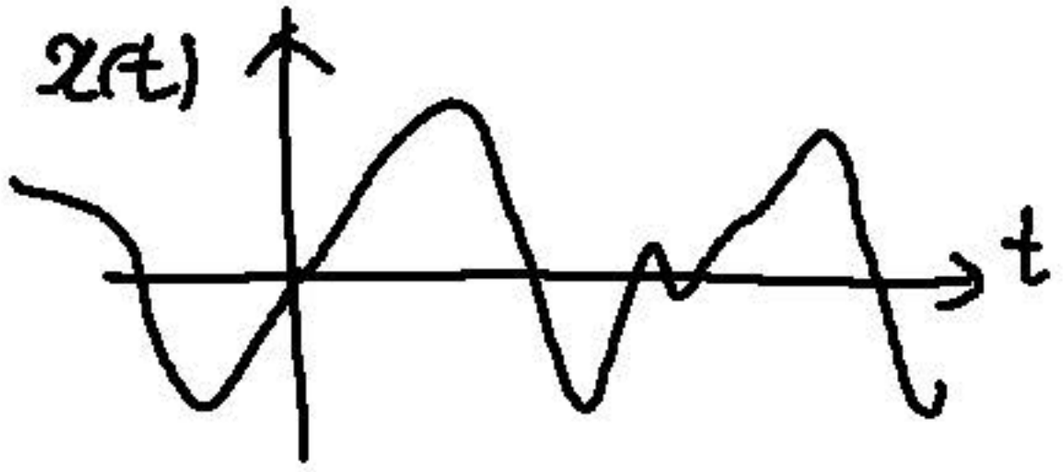
$= x(t)\cos\omega_c t$

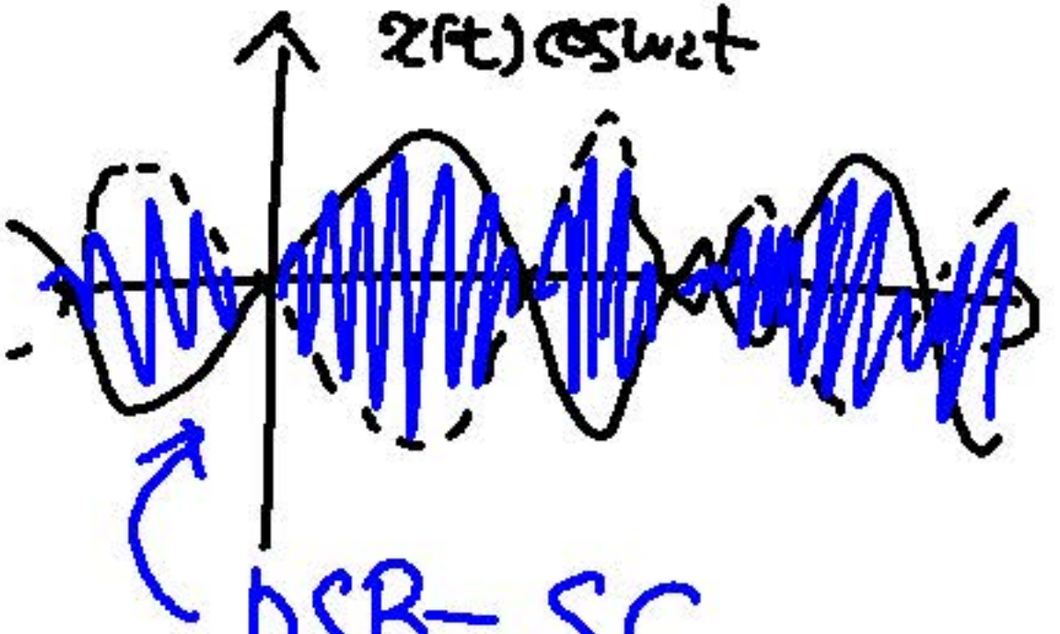
$= C\,x(t-\Delta)\cdot \cos(\omega_c(t-\Delta))$

$= C\,x(t-\Delta)\cos(\omega_c t - \omega_c\Delta)$

$\omega_c\Delta = 2\pi\,(535\sim1605)\times1000\times10^{-6}$

$2\pi \times \boxed{2\times10^{9}\times10^{-6}}$





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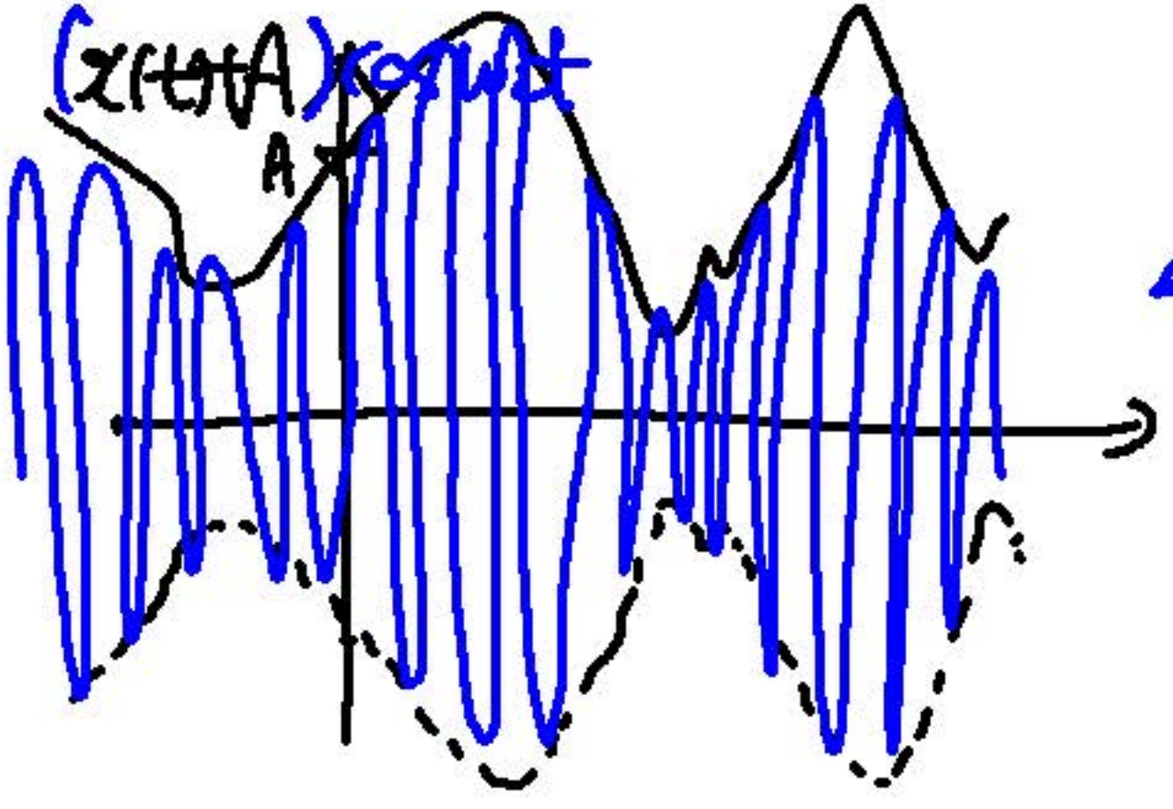

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