Online Delivery Plan

Assessment

1. **Homeworks** – will proceed as normal
2. **Quizzes** – Assigned with homework, but grade contributes to Quiz category.
3. **Exams** – one-week, "take-home"
   - No online resources other than course website and textbook
   - MATLAB/LTSpice ok to use, but no credit unless otherwise stated
4. **Experiments** – Completed individually using MATLAB/LTSpice. No prelab. Reduced to two labs

Online Delivery Plan (2)

Content Delivery

1. **Lectures –** Zoom livestream and recording
2. **Lecture Q&A –** Slido during livestream
3. **Office Hours** – Zoom, Slack, Canvas, e-mail
   - Additional meetings by appointment
4. **Collaboration** – Slack, Canvas

Additional Resources

Course Content

- Magnetically Coupled Circuits (Ch 13)
- Sinusoidal Steady-State Analysis (Ch 10)
- AC Circuit Power Analysis (Ch 11)
- Circuit An Analysis in the s-Domain (Ch 14)

- Frequency Response (Ch 15)
- Two-Port Networks (Ch 16)
- Fourier Circuit Analysis (Ch 17)
- Polyphase Circuits (Ch 12)

Quiz #2 – Common Mistake

- Average: 79, Max: 100, Median: 85
- Mistakes: Algebra

$$s^2 + a_1 s + a_0 = (s - p_1)(s - p_2), \qquad p_{1,2} = \frac{-a_1 \pm \sqrt{{a_1}^2 - 4a_0}}{2}$$

$$a_2 s^2 + a_1 s + a_0 \neq (s - p'_1)(s - p'_2), \quad p'_{1,2} = \frac{-a_1 \pm \sqrt{{a_1}^2 - 4a_2 a_0}}{2a_2}$$

$$a_2\left(s^2 + \frac{a_1}{a_2}s + \frac{a_0}{a_2}\right) = a_2(s - p'_1)(s - p'_2),$$

$$p'_{1,2} = \frac{-\frac{a_1}{a_2} \pm \sqrt{\frac{{a_1}^2}{a_2} - 4\frac{a_0}{a_2}}}{2} = \frac{-a_1 \pm \sqrt{{a_1}^2 - 4a_2 a_0}}{2a_2}$$

Block Diagrams

Example Problem

Slido: #Q711

THE UNIVERSITY OF TENNESSEE KNOXVILLE

Slido: #Q711

THE UNIVERSITY OF TENNESSEE KNOXVILLE