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

**Supplemental Materials**

- Online Course Delivery
- Additional References
- Simulation/Analysis Software
- Course Materials
Course Content

• Magnetically Coupled Circuits (Ch 13)
• Sinusoidal Steady-State Analysis (Ch 10)
• AC Circuit Power Analysis (Ch 11)
• Circuit 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

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

\[ a_2 s^2 + a_1 s + a_0 = (s - p'_1)(s - p'_2), \quad p'_{1,2} = \frac{-a_1 \pm \sqrt{a_1^2 - 4a_2a_0}}{2a_2} \]

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

\[ p'_{1,2} = \frac{-a_1}{a_2} \pm \frac{\sqrt{a_1^2/4 - 4a_0/a_2}}{2} = \frac{-a_1 \pm \sqrt{a_1^2 - 4a_2a_0}}{2a_2} \]
Block Diagrams

Example Problem