

Class 11: Nodal Analysis Multiple Sources

Activity 11 – Nodal Analysis Multiple Sources

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Intro to ECSE

Example

Superposition

- If the voltage at node A is V_{A1} when source V_1 is on
- If the voltage at node A is V_{A2} when source V_2 is on
- The voltage at node A when both sources are on is

$$V_A = V_{A1} + V_{A2}$$

- This general principle holds **for any linear system**
- For the case of systems with resistors

$$V_A = aV_1 + bV_2$$

Activity 11: Nodal analysis multiple sources

- Go to the class website
- Look under class 10
- Find activity 10
- Do the activity
- Answer the activity using template (attached class 11)
- When complete – upload to Gradescope
 - Due Thursday, February 24th at 11:59 pm eastern