

**1. Course Description:**

This course introduces the fundamental techniques of circuit analysis.

**2. Text book:**

*Introduction to Electric Circuits*, James A. Svoboda and Richard C. Dorf

**3. Teaching Method:**

Lectures offered in Mandarin

**4. Evaluation:**

Quiz: 40%

Midterm: 30%

Final: 30%

\* Calculators are allowed in all examinations

**5. Class Webpage:** NTHU e-learning system (<http://eeclass.nthu.edu.tw>)

**6. Syllabus:**

- \* Fundamental circuit laws
- \* Basic circuit analysis methods
- \* Linear circuit analysis
- \* Energy storage elements
- \* First-order circuits
- \* Second-order circuits
- \* Sinusoidal steady state
- \* Frequency response
- \* Operational amplifiers

**7. Instructor:**

Ping-Hsuan Hsieh  
R908 Delta Building  
phsieh@ee.nthu.edu.tw  
03-574-2590