

**1. Course Description:**

This course introduces the fundamental techniques of circuit analysis.

**2. Text book:**

*Foundations of Analog and Digital Electronic Circuits*, Anant Agarwal and Jeffrey Lang, published by Elsevier and Morgan Kaufmann Publishers

**3. Teaching Method:**

Lectures offered in Mandarin

**4. Evaluation:**

Quiz: 40%  
Midterm: 30% date to be announced  
Final: 30% date to be announced

\* Calculators are allowed in all examinations

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

**6. Syllabus:**

* Fundamental circuit laws	Chapter 1
* Basic analytical techniques	Chapter 2
* Linear circuit analysis	Chapter 3
* Energy storage elements	Chapter 9
* First-order circuits	Chapter 10 and 11
* Second-order circuits	Chapter 12
* Sinusoidal steady state	Chapter 13 and 14
* Operational amplifiers	Chapter 15

**7. Instructor:**

Ping-Hsuan Hsieh  
R908 Delta Building  
[phsieh@ee.nthu.edu.tw](mailto:phsieh@ee.nthu.edu.tw)  
03-574-2590