

EE4070 數值分析

Numerical Analysis

February 24, 2015

Numerical Analysis

- Class time: T34, R2: lectures and discussions.
- Class room: 台達館 201.
- Text book
 - *Numerical Mathematics*, by A. Quarteroni, R. Sacco, F. Saleri, 2nd edition, Springer, 2007.
- Reference books
 - *Introduction to Numerical Analysis*, J. Stoer, R. Bulirsch, 3rd edition, Springer, 2002.
 - *Introduction to Numerical Analysis*, E.B. Hildebrand, 2nd edition, Dover, 1987.
 - *Numerical Recipes in C*, W.H. Press, B.P. Flannery, S.A. Teukolsky, W.T. Vetterling, Cambridge University Press, 1988.
- Evaluation
 - Homework: 50%,
 - Could be a significant loading.
 - Mid-term exam: 20%,
 - Apr. 21.
 - Final exam or project: 30%,
 - Jun. 23.
- TA: 吳亞桓 (yahuan0303@yahoo.com.tw)
- Office hours: Thursday 10 - 11:30 AM.
 - Or by appointment (michang@ee.nthu.edu.tw).

Homework

- Homework is designed for you to practice what you have learned in class.
- Grading criteria:
 - Ontime submission (20%),
 - Due on 11:59 PM of the day specified on the announcement.
 - Solution correctness (50%),
 - Program and report writing (30%),
 - Legibility and efficiency,
 - Clearness and logic,
 - Solution approach and comments.
- Download and submit on EE workstations.
- Discussions with classmates encouraged but no plagiarism.
 - Write your own programs.

Handouts and Homework

- Class handouts can be found on EE workstation.
 - Download (ftp) through daisy (140.114.24.31).
 - directory: `~ee407002/notes`
 - `lec00.pdf`,
 - `lec10.pdf`,
 - `lec21.pdf`, ...
- Homework can be found in each homework directory.
 - `~ee407002/hw01`,
 - `~ee407002/hw02`,
- Homework should be turned in on EE workstations.
- Submission command:

```
$ ~ee407002/bin/submit hw01 hw01.cpp hw01a.pdf
```

- To check homework or exam grades:

```
$ ~ee407002/bin/score
```

A Few Suggestions

- Be an active learner.
 - “Stay Hungry. Stay Foolish.”
 - Make it a life long habit.
- Ask questions.
 - It is an important tool.
 - Make the most out of the time you spent.
- Practice makes it perfect.
 - “The devil is in the details.”
 - You really learn the subject if you can put it in use.
 - Apply to your study, research or work.
 - Understand the assumptions and limitations.