

NTHU ESS 340000, Spring 2018
Heat Transfer
熱傳學

Instructor: 陳紹文教授 (辦公室: 李存敏館 607 室, 分機: 34169, E-mail: chensw@mx.nthu.edu.tw)

Lecture time:

T3, T4, R3, R4, **Classroom:** ESS 502

Grade:

Homework: 20%; Participation: 3%;

Exams: 1st Midterm: 25%, 2nd Midterm: 25%, Final: 27%.

Note:

1. 作業繳交時間: 公告作業後一周內繳交給助教 (例如: 本周三公告, 則下周三交, 晚上 11:59 截止)
2. 作業請勿抄襲, 抄襲與被抄襲者皆以零分計!

TA: TBD

Textbook: F.P. Incropera, D.P. DeWitt, T.L. Bergman, A.S. Lavine, "Principles of Heat and Mass Transfer", 7th Edition, International Student Version, John Wiley and Sons Inc., 2013.

Tentative outline:

1. Chapter 1 Introduction (2 hours)
2. Chapter 2 Introduction to Conduction (4 hours)
3. Chapter 3 1-D, Steady-State Conduction (6 hours)
4. Chapter 4 2-D, Steady-State Conduction (4 hours)

1st Midterm Exam, 3/29, 6:30pm, ESS 5F (暫訂)

5. Chapter 5 Transient Conduction (4 hours)
6. Chapter 6 Introduction to Convection (6 hours)
7. Chapter 7 External Flow (6 hours)

2nd Midterm Exam, 5/10, 6:30pm, ESS 5F (暫訂)

8. Chapter 8 Internal Flow (6 hours)
9. Chapter 9 Free Convection (4 hours)
- 10 Chapter 10 Boiling and Condensation (2 hours)
- 11 Chapter 11 Heat Exchangers (4 hours)

Final Exam, 6/21, 6:30pm, ESS 5F (暫訂)