

Course Introduction

李宏毅

Hung-yi Lee

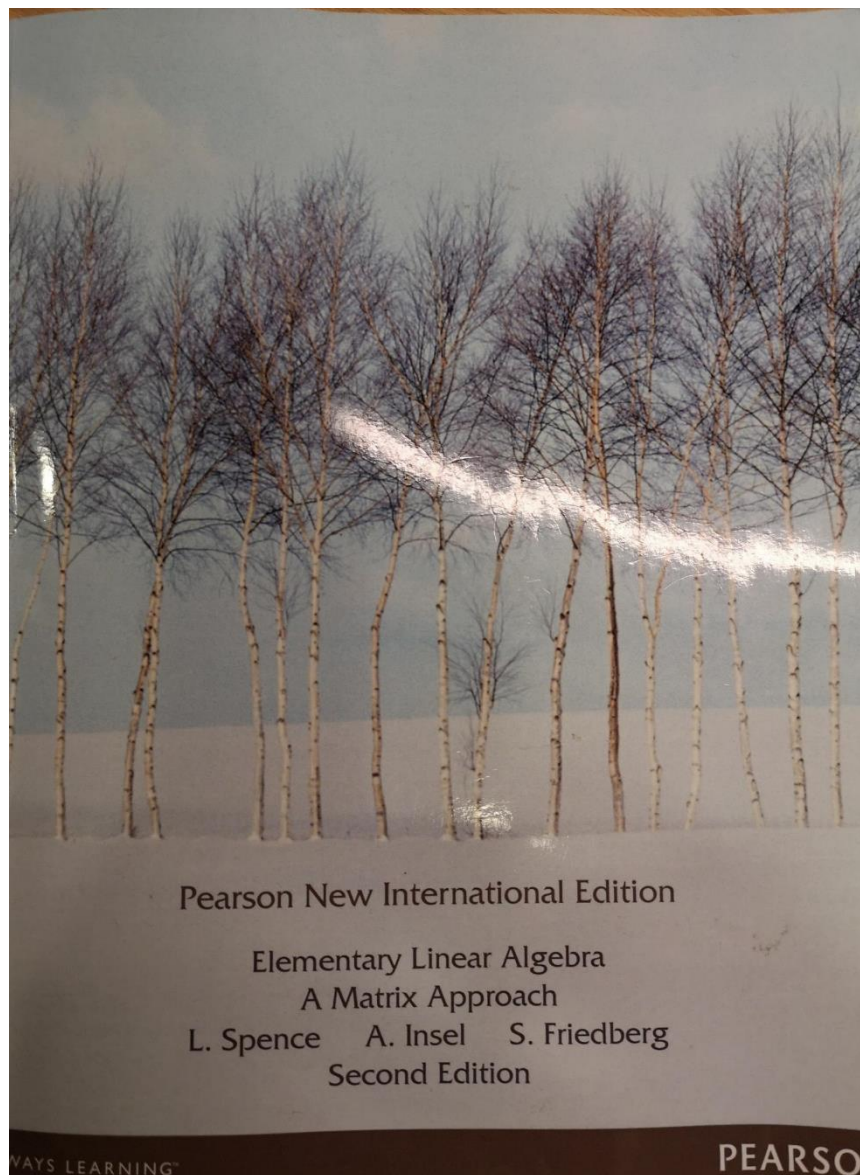
期中考(35%)、期末考(35%)

- 期中和期末考則採各班統一時間舉行及命題
 - 期中考：11/12 (五)
 - 期末考：1/07 (五)
- 考試規則：
 - 除非生病(需醫師開立證明)，不得請假及要求補考
 - 考試作弊者，學期成績不及格
 - 不接受以任何方式求情要求加分或使學期成績及格

教科書

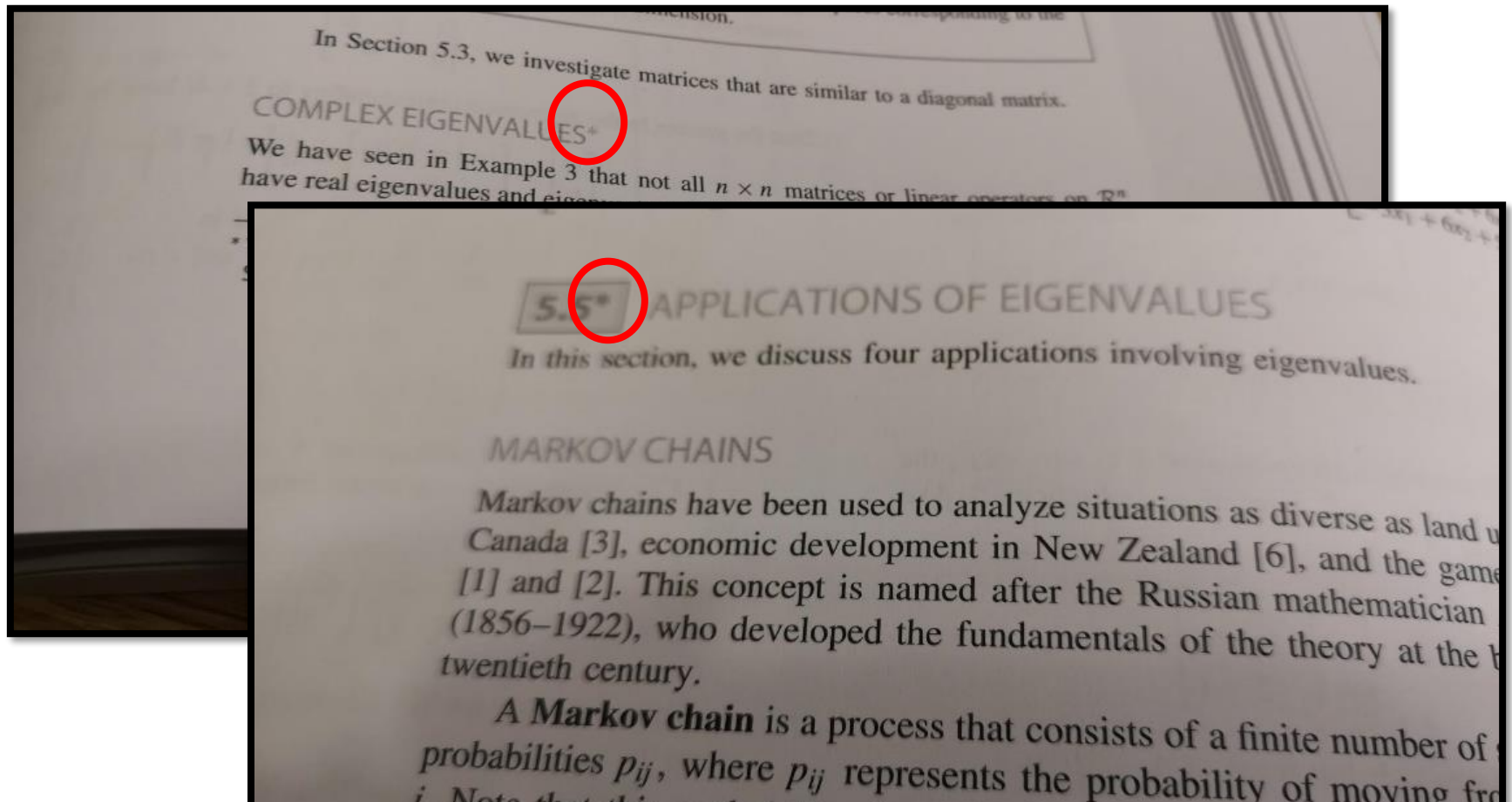
- Elementary Linear Algebra -
A Matrix Approach, **2nd Ed.**,
by L. E. Spence, A. J. Insel
and S. H. Friedberg

上課不完全按照教科書內容
但考試範圍都會講到



考試範圍

- 教科書所有未打星號*章節



六次作業 (30%)

- 每個作業 6% ，取最高的五次計分
- 作業繳交日期和方式等細節另行公告
- 作業是線性代數的應用 (不是勾課本習題，課本習題請自行練習)
- 作業需要使用 python

作業需要使用 python

作業需要使用 python

課程全面線上化

- 課程網頁：
<https://speech.ee.ntu.edu.tw/~hylee/la/2021-fall.html>



課程全面線上化

Video (<10 mins)

6 solution					
✓	Solution of System of Linear Equations (high school)	10	1.3	1 - 4	1 - 4
🔍	Solution of System of Linear Equations (this course)	11		5 - 7	5 - 7
def.	<i>Linear Combination</i>	12-1	1.2	1 - 2	1 - 2
★	Linear Combination v.s. Solution	12-2	1.2	3 - 4	3 - 4
ex.	Linear Combination v.s. Solution (Example 1)	12-3	1.2	5 - 6	5 - 6
ex.	Linear Combination v.s. Solution (Example 2)	12-4	1.2	7 - 9	7 - 9
ex.	Linear Combination v.s. Solution (Example 3)	12-5	1.2	10 - 12	10 - 12
def.	<i>Span</i>	13-1	1.6	1 - 2	1 - 2
ex.	Span (Example)	13-2	1.6	3 - 6	3 - 6
★	Span v.s. Solution	13-3	1.6	7 - 9	7 - 9
thm.	<i>Span (Theorem of Useless Vector)</i>	14-1	1.6	1 - 3	1 - 3
pf.	<i>Span (Theorem of Useless Vector)</i>	14-2	1.6	3 - 4	3 - 4
def.	<i>Dependent / Independent</i>	15-1	1.7	1 - 2 🚧	1 - 2
ex.	Dependent / Independent (Example)	15-2	1.7	3 - 5 🚧	3 - 5

✓ review
def. *definition*

🔍 overview
ex. example

★ basic concept
pf. *proof*

+ optional
thm. *theorem*

課程全面線上化

textbook slides

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✓ review
def. [definition](#)

🔍 overview
ex. example

★ basic concept
pf. [proof](#)

+ optional
thm. [theorem](#)

課程全面線上化

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之後影片會加上日期，代表影片於該日期前看完影片

課程全面線上化

學習
方式

- 自己看影片
- 有問題請在 NTU COOL 上發問，助教和老師會回答

上課
時間

- 講解作業
- 選擇部分 NTU COOL 上的問題回答
- 講解習題

以後僅週五上課，下週五 10/01 開始
(本週五不上課)

加簽

- 在下週三(9/29)中午前填寫以下表單：
<https://reurl.cc/52qN3y>

- 填寫表單就會有授權碼
- 請確定要修這門課再填表單
- 授權碼於下週五(10/01)中午前送出



助教群

助教信箱：
earalgebra@ gmail.com



劉聿珉 (大助教)



林冠廷



陳建成



王凡林



翁茂齊



林泓均