Course Information

李宏毅

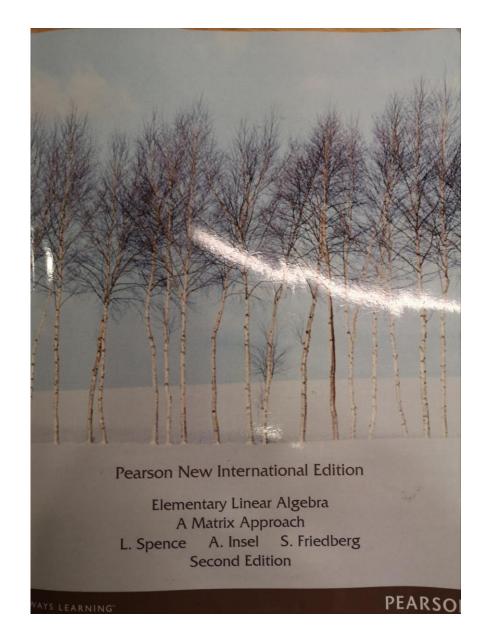
Hung-yi Lee

課程資訊

- 上課時間:
 - 週三上午 9:10 10:00
 - 週五上午 10:20 12:10
- 上課地點: 電二143
- 評量方式:
 - 期中考 (35%)
 - 期末考 (35%)
 - 六次作業 (每個作業 6%)
 - 取最高的五次計分

教科書

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



考試範圍

• 考試範圍:教科書所 有未打星號*章節

In this section, we discuss four applications involving eigenvalues. Markov chains have been used to analyze situations as diverse as land u Canada [3], economic development in New Zealand [6], and the game [1] and [2]. This concept is named after the Russian mathematician (1856-1922), who developed the fundamentals of the theory at the twentieth century. A Markov chain is a process that consists of a finite number of probabilities p_{ij} , where p_{ij} represents the probability of moving from i. Note that this probability depends only on the present state j as i. The movement of population between the city and suburbs described of Section 2.1 is an example of a Markov chain with two states (1)

n Section 5.3, we investigate matrices that are similar to a diagonal matrix.

MPLEX EIGENVALUES*

have seen in Example 3 that not all $n \times n$ matrices or linear operators on \mathbb{R}^n we real eigenvalues and eigenvectors. The characteristic polynomial of such a matrix

the remainder of this section is used only in the description of harmonic motion (an optional topic in Section 5.5).

期中、期末考

- 期中和期末考則採各班統一時間舉行及命題
- 時間為期中考週和期末考週的週五
- 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

作業

- 作業不是勾課本習題 (課本習題請自行練習)
- 作業是線性代數的應用
- 需要使用 python
 - 會請助教來教 python
- 作業繳交日期和方式等細節另行公告

時程表(暫定)

週次	進度
第一週	Chapter 1, 2
第二週	Chapter 1, 2
第三週	Chapter 1, 2
第四週	Chapter 3
第五週	Chapter 4
第六週	Chapter 4
第七週	Chapter 4
第八週	Chapter 4
第九週	期中考週
第十週	Chapter 5
第十一週	Chapter 5
第十二週	Chapter 5
第十三週	Chapter 6
第十四週	Chapter 7
第十五週	Chapter 7
第十六週	Chapter 7
第十七週	Chapter 7
第十八週	期末考週

其他注意事項

- 上課投影片會放在李宏毅的個人網頁上
 - http://speech.ee.ntu.edu.tw/~tlkagk/courses_LA 18.html
- FB 社團: NTUEE Linear Algebra (2018)
 - https://www.facebook.com/groups/9887075079 67491/
 - 歡迎討論任何和線性代數相關的問題
 - •請務必加入FB社團,重要訊息除了透過學校 ceiba 寄 e-mail 外,也會透過FB 社團公告
- 助教信箱: LinearAlgebraLee@gmail.com
- 有關加簽