

## 多變量分析理論與應用

### MULTIVARIATE ANALYSIS AND APPLICATIONS

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Class Times: 13:10~16:00 Thursday

Class Room: 5828

Prerequisites: Topics related to Statistics

Textbook: Applied Multivariate Techniques,

Subhash Sharma,

John Wiley & Sons, Inc. 1996

滄海 04-2708-8787

References: An Introduction to Multivariate Statistical Analysis, 3<sup>rd</sup>

T. W. Anderson,

John Wiley & Sons, Inc. 2003

雙葉 02-2368-4198

Multivariate Data Analysis, 7<sup>th</sup>

Hair, Black, Babin, Anderson, and Tatham.

Pearson Education, Inc. 2009

華泰 02-2162-1217

Grading:	Quiz	40%
	Midterm	30%
	Final	30%

Course Outline:

1. Introduction (1 week)
2. Fundamentals of data manipulation (1 week)
3. Principal component analysis(1 week)
4. Factor analysis(2 week)
5. Cluster analysis(1.5 week)
6. Midterm
7. Discriminant analysis(2.5 week)
8. Logistic regression(1 week)
9. Multivariate analysis of variance(2.5 week)
10. Canonical correlation(1.5 week)
11. Final exam