

IEE 7746: Channel Coding (Spring 2001)

Hsueh-Ming Hang (April 2001)

Grading: Homework: 20 % (4 sets)

Final Examine: 50% (2.5 hours, open book)

Final report: 30% (20 min. presentation + “view-graph” report -- file) (Two students together as a group.)

Remarks: Topics (Topic, Time Slot) of final report are provided at the end of April. Each presentation is an extended lesson of the course material. Outlines and partial references are provided to the presenters. Presenters should collect additional necessary material and write up the viewgraphs. Two students together as a group present a 40-min. subject.

1. 檢查你的投影片中是否明顯地說出下列要點：

- a. 研究（報告）目的，
- b. 使用什麼原理或假設，
- c. 所用方法（設計，推証）要點，
- d. 主要結果，
- e. 結論
- f. References（內容中資料來源）

2. 概念為主，避免冗長數學推導

~~✍~~ **Grading of Final Presentation:**

Written report (contents, organization, clarity, ...): ~**70%**

Oral report (contents, organization, clarity, ...): ~**30%**

Schedule: Channel Coding (Spring 2001)

Week	Month(s)	Days		Remark
1	Feb.			
2	Feb./Mar.			
3	Mar.			
4	Mar.	16	Linear codes	
5	Mar.	23	Cyclic codes	
6	Mar.	30	BCH codes	
7	Apr.	6		Holiday
8	Apr.	13	BCH codes	
9	Apr.	20	RS codes (HW #1)	
10	Apr.	27	Burst-error codes , Convolutional codes (HW #2)	
11	May	4	Convolutional codes (HW #3)	
12	May	11	Trellis-coded modulation (HW #4)	
13	May	18	Exam.	5/18 Off
14	May	25	Turbo codes	
15	June	1	(Off)	
16	June	(7) 8	Report	
17	June	(14) 15	Report	
18	June		(Off)	

Final Exam. : May 18 (Notes: Intro. -- Convolutional codes);
150 mins; open book