Digital Communications
Fall 2014

Wireless Information Transmission System Lab.
Institute of Communications Engineering
National Sun Yat-sen University

Institute of Communications Engineering
Prof. Chih-Peng Li
Course Information


◊ Class Room: EC 6015-1
◊ Lecture: Monday 14:10-17:00.
◊ Office Hour: Monday and Thursday, 10:00~12:00.
◊ Office: F8038; Phone: 4480
◊ Office: F6014; Phone: 4100
◊ Email: cpli@faculty.nsysu.edu.tw

◊ Teaching Assistants: 李依潔、黃國閔、葉驊誠 (Lab:F9011；Phone:4481)

◊ Midterm I: 30%; Midterm II: 35%; Final: 35%. 
Recommended Books

◊ Digital Communications / Fifth Edition (Textbook)
  -- John G. Proakis and Masoud Salehi, McGraw Hill

  -- Simon Haykin, John Wiley & Sons, Inc.

◊ Digital Communications – Fundamentals and Applications / 2nd Edition
  -- Bernard Sklar, Prentice Hall

◊ Principles of Communications / Fifth Edition

◊ Modern Digital and Analog Communication Systems
  -- B.P. Lathi, Holt, Rinehart and Winston, Inc.
<table>
<thead>
<tr>
<th>Date</th>
<th>Content</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2014.09.18</td>
<td>Introduction</td>
<td>2014.11.20</td>
<td>Optimum Receivers for AWGN Channels</td>
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<tr>
<td>2014.09.25</td>
<td>Deterministic and Random Signal Analysis</td>
<td>2014.11.27</td>
<td>An Introduction to Information Theory</td>
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<td>2014.12.01</td>
<td>Midterm II</td>
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<td>2014.10.09</td>
<td>Deterministic and Random Signal Analysis</td>
<td>2014.12.11</td>
<td>An Introduction to Information Theory / Linear Block Code</td>
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<td>2014.10.16</td>
<td>Digital Modulation Schemes</td>
<td>2014.12.18</td>
<td>Linear Block Code</td>
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<td>2015.01.01</td>
<td>National Holiday</td>
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<td>2014.11.06</td>
<td>Digital Modulation Schemes/ Optimum Receivers for AWGN Channels</td>
<td>2015.01.08</td>
<td>Digital Communication Through Band-Limited Channels</td>
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<td>2015.01.12</td>
<td>Final</td>
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<td>(Monday)</td>
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Examinations

- Midterm 1: Monday October 20, 2014 (30%)
  - Introduction
  - Deterministic and Random Signal Analysis

- Midterm 2: Monday December 1, 2014 (35%)
  - Digital Modulation Schemes
  - Optimum Receivers for AWGN Channels

- Final: Monday January 12, 2015 (35%)
  - An Introduction to Information Theory
  - An Introduction to Basic Coding Theory
  - Digital Communication Through Band-Limited Channels