

# **SA410, Applications of Search and Detection Theory**

**Fall 2011**

**Prof. T.J. Sanders**

## **Syllabus**

<b>Item</b>	<b>Topic</b>	<b>Assignment</b>
1	Chapter 1, MOEs & Model Testing	Read pp. 1-22, paying close attention to 108 and 110. Do problem 7 pg. 26.
2	Chapter 2, Decision Criteria	Read pp. 33-59 Do pg. 60: 1-4, 6, 8, 11-17 (problem 15 refers to problem 11, not problem 10).
3	Chapter 4.A, Sonar	Read pp. 88-107. Do problems 1-12 pp. 127-128.
4	Chapter 4.B, Radar	Read pp. 108-126. Do problems 14-25 pp. 129-130.
5	Chapter 5, CDP	Read pp. 131-149. Do problems 2, 7, 8, and 9 pp. 152-154, and 10 pg. 84.
6	Chapter 6, Lateral Range Curves and Sweep Width	Read pp. 156-168. Do problems 1, 2, 4-6, and 8 pp. 169-171.
7	Chapter 7, Search and Patrol	Read pp. 173-183. Do problems 1-7 pp. 183-185.
8	Chapter 8, CAS	Read pp. 187-207. Do problems 1-9 pp. 208-211.
9	Chapter 9, Barrier Patrols	Read pp. 213-220. Do problems 1-7 pp. 229-231.
10	Chapter 11, TMA	Read pp. 256-275. Do problems 1-11 pp. 276-277.

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