ECE 929B: Antenna Theory
Spring 2014

4:10 – 5:30 MW 1230 EB
4:10 – 5:00 F 1202 EB

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Web site: Desire 2 Learn system (https://d2l.msu.edu)

Class Notes: Antenna Theory, by D.P. Nyquist. Class notes are available on D2L.

Grading:
Homework: 20%
Exam 1: 30%
Exam 2: 30%
Exam 3: 20%

Course Outline -------------------------

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<td>1. The far-field integrals, reciprocity, directivity</td>
<td>Ch. 1</td>
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<td>2. Radiation patterns of dipoles, loops and helices</td>
<td>Ch. 2</td>
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<td>3. Linear Arrays: analysis</td>
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<td>4. Self impedance and mutual impedance of antenna elements</td>
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<td>5. Radiation patterns of horns, patches and slot antennas</td>
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<td>6. Frequency-independent antennas</td>
<td>Ch. 8</td>
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<td>7. Reflectors and lenses</td>
<td>Ch. 10</td>
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<td>8. The singularity expansion method (if time permits)</td>
<td>Notes</td>
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Exam 1. February 24, 2014, 4:10-5:30 pm
Exam 2. April 14, 2014, 4:10-5:30 pm
Exam 3. April 30, 2014, 5:45-7:45 pm

Policy on religious observances – every attempt will be made to accommodate student needs. Any conflicts should be reported to the instructor as they are identified.
**Suggested References**

*These references are available both within the EM Research Group and the MSU library system*


*These references are in the MSU library system*


