ECE 617 Antennas: Design and Application  
Spring 2015  
TuTh 12:00 - 1:15 pm in FRNY B124

Instructor

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Tu - 3:30 pm - 5:00 pm  
Th - 9:30 am - 11:00 am  
and by email appointment

Assistant

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M-F - 8:00 am - 12:00 pm  
M-F - 1:00 pm - 5:00 pm

Prerequisite

ECE604, or a graduate course in electromagnetics

Text:


Grading

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<tbody>
<tr>
<td>Homework:</td>
<td>25 points</td>
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<tr>
<td>Midterm:</td>
<td>100 points</td>
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<tr>
<td>Final:</td>
<td>200 points</td>
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<td><strong>Total</strong></td>
<td><strong>325 points</strong></td>
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Notes Regarding Midterm and Final Exams

- A formula sheet (8.5” × 11”, one side) is allowed.
- Calculators and computers are not permitted.
- The final will be comprehensive.

Dates for Midterm and Final Exams

Midterm Exam: Thursday, March 26, 2015 - class time, FRNY B124  
Final Exam:
Syllabus

<table>
<thead>
<tr>
<th>Topic</th>
<th>Text Sections</th>
<th>Weeks</th>
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<tbody>
<tr>
<td>1. Maxwell’s equations and fundamental EM concepts</td>
<td>2</td>
<td>2</td>
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<tr>
<td>2. Antenna fundamentals and parameters</td>
<td>2</td>
<td>2</td>
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<tr>
<td>3. Radiation integrals</td>
<td>3</td>
<td>2</td>
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<tr>
<td>4. Wire antennas</td>
<td>4, 5</td>
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<tr>
<td>5. Arrays</td>
<td>6, 7</td>
<td>2</td>
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<tr>
<td>6. Numerical modeling</td>
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<td>1</td>
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<td>7. Broadband antennas</td>
<td>9-11</td>
<td>1</td>
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<tr>
<td>8. Aperture antennas</td>
<td>12, 13, 15</td>
<td>1</td>
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<tr>
<td>9. Conformal antennas</td>
<td>14</td>
<td>1</td>
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<tr>
<td>10. Antenna measurements</td>
<td>16</td>
<td>1</td>
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References