

**UNIVERSITY ☺ OF ☺ PORTLAND**  
**Sch☺☺l ☺ of Engineering**

EE 301  
Spring 2004  
A.Inan

**Handout # 19**  
(Friday, April 16, 2004)

**Homework # 7- Uniform Plane Waves**  
(Due Friday, April 23, 2004; 11:25a.m.)

- (1) 7-21. **Wave propagation.** Inan<sup>2</sup> (red book), page 631.
- (2) 7-22. **Phasors.** Inan<sup>2</sup> (red book), page 631.
- (3) 7-23. **Phasors.** Inan<sup>2</sup> (red book), page 631.
- (4) 8-2. **TV broadcast signal.** Inan<sup>2</sup> (red book), page 764.
- (5) 8-3. **Uniform plane wave.** Inan<sup>2</sup> (red book), page 764.
- (6) 8-8. **Unknown material.** Inan<sup>2</sup> (red book), page 765.

**Please use the following guidelines for your homework solutions:**

- 1) On the first sheet, at the top, indicate that this is EE 301/Spring 2004/HW #7 Solutions and provide your name somewhere on that sheet where the grader can easily see it.
- 2) Solve each problem on a separate sheet unless there is a solution which is very short.
- 3) Do not use the back of the sheets unless you have to.
- 4) Staple your solutions in the above order before you turn them in.

Please turn in your homework solutions on time. The solutions for each homework assignment will be provided as a separate handout on the due date. **Late homework solutions will not be accepted!**

**Please make a note!**

**EE-301-Final Exam—Thursday, April 29, 2004!**

(It will be a closed book exam, however you can use formula sheets.)