

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

EE 301  
Spring 2004  
A.Inan

**EE 301/Handout # 2**  
(Monday, January 19, 2004)

**Homework # 2**  
**Distributed-Circuit Parameters of Simple Transmission-Line (TL) Structures**  
**& Digital Signal Propagation on Lossless TLs**  
(Due Wednesday, January 28, 2004, 11:25a.m.)

- (1) **2-42. RG 8 coaxial line.** Inan<sup>2</sup> (red book), page 106.
- (2) **2-43. Two-wire line.** Inan<sup>2</sup> (red book), page 107.
- (3) **2-2. Resistive loads.** Inan<sup>2</sup> (red book), page 91.
- (4) **2-5. Pulse excitation.** Inan<sup>2</sup> (red book), page 91.
- (5) **2-9. Time-domain reflectometry (TDR).** Inan<sup>2</sup> (red book), page 93.
- (6) **2-11. Time-domain reflectometry (TDR).** Inan<sup>2</sup> (red book), page 94.
- (7) **2-13. Digital IC chips.** Inan<sup>2</sup> (red book), page 94.

**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 #2 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 the solution 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 (or answers) for each homework assignment will be provided as a separate handout on the due date. **Late homework solutions will not be accepted!**