

# EE241 WAVES I

Autumn 2005-2006

## Class Information

### Class Meetings:

MWF 9:00–9:50 AM, Location TBD

### Instructor: Len Tyler

Office hours: David Packard 331, MW 1:15–3:15 p.m., or appointment.

Email: len.tyler@stanford.edu

Phone: (650) 723-3535 (emergencies 328-6420)

### TA: Agram Piyush Shanker

Office hours: Problem Sessions TBA

Conferences TBA

E-mail: shanker@stanford.edu

Phone: 723-3669 (office)

### News Group, etc.

TBA

### Class List

We will make use of the Registrar's electronic list for sending out email, etc.

It's important that you let us know if somehow you are not receiving anything from us.

### Important Dates

November 6–11 Midterm Exam (tentative week)

November 21, 23, 25 Thanksgiving—no class

December 3–9 Dead Week

December 16, 8:30–11:30 AM Final Exam (per University schedule)

## Materials

1. Course reader: "Notes on Waves," Tyler, 2005. [ $e^{+j\omega t}$ ]
2. Standard electromagnetics text:  
Ramo, Whinnery, and Van Duzer,  
*Fields and Waves in Communications Electronics*, Wiley, 3rd ed., c1994. [ $e^{+j\omega t}$ ]  
(2nd ed. will also be OK, if you have this; Sections nos. are slightly different.)
3. General treatment of waves (required):  
Elmore and Heald,  
*Physics of Waves*, Dover, 1969. [ $e^{-j\omega t}$ ]
4. Other general and specific works on reserve at Terman Engineering Library.

## Grading

Weekly homework assignments		35%
Midterm Exam	Open Book, Notes	25%
Final Exam	Open Book, Notes	40%

## Prerequisites: Guidelines only

Undergraduate electromagnetics or waves, minimum of two quarters,  
such as EE 141, 142, or...

Calculus and introduction to, or experience with, partial differential equations, or...

If you have questions or concerns about the prerequisites please see the instructor,  
the TA, or both. If you know someone who has taken EE241 in the past you also  
might want to discuss this with him or her.