EGFD 707-001: Finite Element Techniques - III
Spring Quarter 2002

Instructor: Dr. Kumar Vemaganti, Assistant Professor of Mechanical Engrg.
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Course page: http://blackboard.uc.edu/

Textbook: Concepts and Applications of Finite Element Analysis

Goals: To understand the theory and applications of the finite element method
in structural dynamics, vibrations, and nonlinear analyses.

Class: TH 11:00 – 12:15, 741 Baldwin

TA: Mr. Bangyong Keum (keumb@email.uc.edu)

Office hours: Mr. Keum: 2:00 – 4:00 Monday, Wednesday; 584/591 Rhodes.
Dr. Vemaganti: 1:00 – 3:00 Tuesday, Thursday; 629 Rhodes.

Prerequisites: Differential Equations, Strength of Materials, FET - I & II.

Topics: (1) Topics in structural mechanics
(2) Vibration analysis
(3) Frequency response analysis
(4) Transient response analysis
(5) Nonlinear analysis

Grading: 50%: Lab assignments and homework
40%: Project
10%: Project presentation & class participation

Policies & other info (a) Class attendance and punctuality are highly recommended.
(b) Late work will not be accepted.
(c) Lab assignments and homeworks take time. Please plan ahead.
(d) Unless otherwise stated, all work is to be done independently.
(e) If you would like to audit the class, please contact the instructor.