Math 413–001 (Modern Applied Mathematics I)
Fall 2004

Instructor: David Walnut
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Office hours: TR 3:00–4:00 and by appointment.
Prerequisites: Math 203 and 214 (or 216) and some familiarity with MATLAB.
Website: The website for this course can be accessed through the Math Department website: math.gmu.edu by clicking on Course Home Pages and then the link to this course. The student is responsible for checking the website from time to time for important announcements, solutions to homework sets and exams, and other useful links and information.
Topics: The course will cover the material in the first three chapters of the text.
Goals: The goal of the course is to provide the student with a firm grounding in some of the basic techniques and ideas of applied mathematics. The course will emphasize the ubiquity of equilibrium and minimum principles, and linear algebra in the modelling and solution to problems in physics and engineering.
Grading: There will be regular homework assignments given throughout the semester. Homework counts for approximately 50% of your final grade. The remaining 50% will be divided evenly between an in-class midterm exam given on Thursday October 21 and a cumulative final exam given on Thursday December 16, 10:30am–1:15pm in the same room where we have class. Final grades will be assigned according to the usual scale: A: 90-100; B: 80-90, etc.