Physics 619

Class Information:

- Syllabus (pdf)

Contacting the Instructor (David Strom):

- Phone: 346-6108
- Office Hours: Monday 1:30-2:30PM
- Email: strom@physics

Homework:

- Homework 1 (pdf)
- Homework 2 (pdf)
- Homework 3 (pdf)
- Homework 4 (pdf)
- Homework 5 (pdf)
- Homework 6 (pdf)
- Homework 7 (pdf)
- Homework 8 (pdf)

Labs:

- Lab 1 (pdf)
- Lab 2 (pdf)
- Lab 3 (pdf)
- Lab 4 (pdf)
- Lab 5 (pdf)
- Lab 6 (pdf)

Review:

- Review for midterm (pdf)
- Review for final (pdf)

Notes on using programmable logic from Eric Torrence

- Notes on plds
Electronic parts (and data sheets):

- List of parts in ETL
- National Semiconductor (analog and digital ICs) National
- Analog Devices (ADCs, DACs, sample and hold...) analog
- Texas Instruments (Digital ICs) TI
- ON Semiconductor (used to be Motorola), transistors, ECL logic, ... ON Semiconductor
- Maxim (op-amps, linear ICs, ADCs) maxim
- EE times @cyclopedia

Vendors:

- Newark - comprehensive Newark
- Allied Electronics, Inc. - comprehensive Allied
- Digikey Electronics - good selection- Digikey
- Mouser Electronics - good selection Mouser
- Jameco Electronics -- small but well selected Jameco
- J DR Microdevices (includes computer boards for older legacy computers) Microdevices
- Future Active future
- Schad Electronic Supplies -- consumer Schad
- All Electronics Corporation -- surplus All

About your instructor
Tentative Syllabus:

Phys-622:
Electrostatics
Magnetostatics
Maxwell’s Equations
Special Relativity I

Phys-623:
Special Relativity II
Symmetries
Applications form a physics (rather than engineering) point of view:
Radiation emission, propagation and absorption
Relativistic charged particle dynamics
Acceleration, and collision of charges