Ge 108 Application of Physics to the Earth Sciences Fall 2000
Meets: TBD
Webpage: www.gps.caltech.edu/~mbrown/classes/ge108
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Rough syllabus:
Week 1: Half-lives. Hydrostatic equilibrium.
Week 2: Energy and heat flow. Solution of the diffusion equation. Thermal waves. (rescheduled lecture)
Week 3: Radiation.
Week 4: Applications of radiation. Numerical techniques. (rescheduled lecture)
Week 5: Gravitational force and potentials. Midterm. (rescheduled week)
Week 6: Simple harmonic oscillators. Forced oscillations.
Week 7: Coupled oscillators. Waves. (rescheduled lecture)
Week 8: Wave propagation. Wave applications.
Week 9: Waves on water. Thanksgiving.
Week 10: Stress and strain. Continuum mechanics.

Problem sets will be handed out each Wednesday and be due at the beginning of class the following Wednesday. Midterm will be due on Wednesday, 8 November. Final will be due on Wednesday, 8 December.

Grading:
Homeworks (8): 50%
Midterm: 20%
Final: 30%