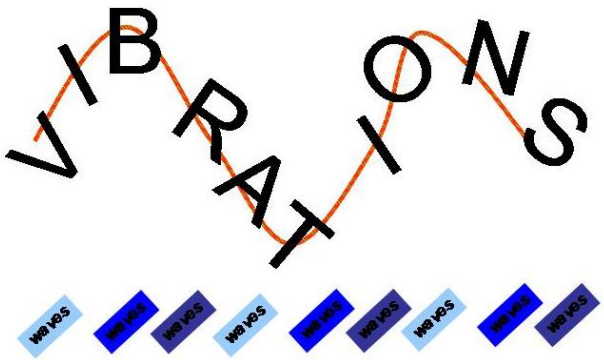
Course Announcement: MTH 621-3

Differential and Integral Equations of Mathematical Physics

http://www.math.oregonstate.edu/~mpesz/teaching/622_W12/



Course content (Winter):

- Distributions and weak solutions to stationary and non-stationary diffusion problems.
- Hilbert space methods, variational calculus and Galerkin method.
- Green's functions, maximum principle(s).
- Integral equations.

Prerequisites: MTH 621 or a similar class, or Instructor's approval.

Textbook: Material from the following textbooks will be used as well as some downloadable notes:

- R. Guenther and J. Lee, Partial Differential Equations of Mathematical Physics and Integral Equations, Dover, 1996