Nonlinear Dynamics

FALL 2016 – MCE 663

Interdisciplinary Course for Engineering and Science Graduate Students

Explore nonlinear dynamics theory and its applications to mechanical, chemical, electromagnetic or biological oscillators; stability, phase space analysis, limit cycles, bifurcations, perturbation methods, chaos, fractals, strange attractors and other advanced topics. Emphasis will be on:

- geometric thinking
- computational and analytical methods
- makes extensive use of symbolic and computational software

REGISTER NOW!

Place: Kelley Hall 203
Time: Tuesdays and Thursdays
3:30pm – 4:45pm
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Text: Steven H. Strogatz,
Nonlinear Dynamics and Chaos: With Applications to Physics, Biology, Chemistry, and Engineering,