

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Chemistry and Biochemistry - NOC: Introductory Non-Linear Dynamics

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Co-ordinating Institute - IIT - Delhi

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction, Stability, Phase Space and Invariant Sets - 1
- Lecture 2 - Introduction, Stability, Phase Space and Invariant Sets - 2
- Lecture 3 - Introduction, Stability, Phase Space and Invariant Sets - 3
- Lecture 4 - Maps and Flows. Simple Examples of Dynamics Systems - 1
- Lecture 5 - Maps and Flows. Simple Examples of Dynamics Systems - 2
- Lecture 6 - Logistic map. Simple Examples of Bifurcations
- Lecture 7 - Bifurcation Diagrams. Period 3 Implies Chaos. Characterizing Chaos
- Lecture 8 - Characterizing The Period-Doubling Route to Chaos
- Lecture 9 - Lyapunov Exponents; Invariant measures
- Lecture 10 - Intermittency. Crises
- Lecture 11 - Fractals
- Lecture 12 - Chaos in Flows. The Lorenz and Rossler Systems
- Lecture 13 - The Baker and Horseshoe Maps
- Lecture 14 - Hamiltonian Chaos - 1
- Lecture 15 - Hamiltonian Chaos - 2

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