

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

NPTEL Video Course - Physics - NOC:Computational Science and Engineering Using Python

Subject Co-ordinator - Prof. Mahendra Verma

Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Lecture 1 - About Computers
Lecture 2 - Lecture 2 - Python
Lecture 3 - Lecture 3 - Python
Lecture 4 - Lecture 4 - Python
Lecture 5 - Lecture 5A - Python packages; Programming
Lecture 6 - Lecture 5B - Some suggestions on programming
Lecture 7 - Lecture 6 - Plotting in Python
Lecture 8 - Lecture 7 - Errors and Nondimensionalization
Lecture 9 - Lecture 8 - Data I/O and Mayavi
Lecture 10 - Lecture 9 - Lagrange interpolation
Lecture 11 - Lecture 10 - Interpolation II
Lecture 12 - Lecture 11 - Integration I
Lecture 13 - Lecture 12 - Integration II
Lecture 14 - Lecture 13 - Gaussian quadrature continued
Lecture 15 - Lecture 14 - Numerical Differentiation
Lecture 16 - Lecture 15 - ODE solvers
Lecture 17 - Lecture 16 - ODE solvers continued
Lecture 18 - Lecture 17 - Fourier transform
Lecture 19 - Lecture 18 - PDE solver
Lecture 20 - Lecture 19A - PDE solver
Lecture 21 - Lecture 19B - PDE solver
Lecture 22 - Lecture 20 - Linear algebra
Lecture 23 - Lecture 21 - Summary

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