

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

NPTEL Video Course - Mathematics - NOC:Scientific Computing using Python (Hindi)

Subject Co-ordinator - Prof. Mani Mehra, Prof. Vivek K. Aggarwal

Co-ordinating Institute - IIT - Delhi

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

Lecture 1 - Introduction to Python
Lecture 2 - Introduction to Python (Continued...)
Lecture 3 - Introduction to Python (Continued...)
Lecture 4 - Introduction to Python (Continued...)
Lecture 5 - Introduction to Python (Continued...)
Lecture 6 - Introduction to Python (Continued...)
Lecture 7 - Errors in Computation
Lecture 8 - Errors in Computation (Continued...)
Lecture 9 - Solution of Non-Linear Equation
Lecture 10 - Solution of Non-Linear Equation (Continued...)
Lecture 11 - Solution of Non-Linear Equation (Continued...)
Lecture 12 - Vector and Matrix Norms
Lecture 13 - Solution of System of Linear Equations
Lecture 14 - Solution of System of Linear Equations (Continued...)
Lecture 15 - Positive Definite Matrices
Lecture 16 - Jacobi and Gauss-Seidal Iterative Methods
Lecture 17 - Matrix Eigenvalue Computation: Power Method
Lecture 18 - Gershgorin Theorem
Lecture 19 - Polynomial Interpolation
Lecture 20 - Polynomial Interpolation (Continued...)
Lecture 21 - Polynomial Interpolation (Continued...)
Lecture 22 - Polynomial Interpolation (Continued...)
Lecture 23 - Polynomial Interpolation (Continued...)
Lecture 24 - Polynomial Interpolation (Continued...)
Lecture 25 - Polynomial Interpolation (Continued...) (Spline Method)
Lecture 26 - Least Square Approximation
Lecture 27 - Least Square Approximation (Continued...)
Lecture 28 - Numerical Differentiation
Lecture 29 - Numerical Differentiation (Continued...)

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- Lecture 30 - Numerical Integration
- Lecture 31 - Numerical Integration (Continued...)
- Lecture 32 - Numerical Integration (Continued...)
- Lecture 33 - Numerical Solution of Initial Value Problems
- Lecture 34 - Numerical Solution of Initial Value Problems (Continued...)
- Lecture 35 - Numerical Solution of Initial Value Problems (Continued...)
- Lecture 36 - Numerical Solution of Boundary Value Problems