

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

NPTEL Video Course - Basic Courses (Semester 1 and 2) - Numerical Methods and Computation

Subject Co-ordinator - Prof. S.R.K. Iyengar

Co-ordinating Institute - IIT - Delhi

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

Lecture 1 - Errors in Computation and Numerical Instability  
Lecture 2 - Solution of Nonlinear Algebraic Equations - Part 1  
Lecture 3 - Solution of Nonlinear Algebraic Equations - Part 2  
Lecture 4 - Solution of Nonlinear Algebraic Equations - Part 3  
Lecture 5 - Solution of Nonlinear Algebraic Equations - Part 4  
Lecture 6 - Solution of Nonlinear Algebraic Equations - Part 5  
Lecture 7 - Solution of Nonlinear Algebraic Equations - Part 6  
Lecture 8 - Solution of Nonlinear Algebraic Equations - Part 7  
Lecture 9 - Solution of Nonlinear Algebraic Equations - Part 8  
Lecture 10 - Solution of Nonlinear Algebraic Equations - Part 9  
Lecture 11 - Solution of a System of Linear Algebraic Equations - Part 1  
Lecture 12 - Solution of a System of Linear Algebraic Equations - Part 2  
Lecture 13 - Solution of a System of Linear Algebraic Equations - Part 3  
Lecture 14 - Solution of a System of Linear Algebraic Equations - Part 4  
Lecture 15 - Solution of a System of Linear Algebraic Equations - Part 5  
Lecture 16 - Solution of a System of Linear Algebraic Equations - Part 6  
Lecture 17 - Solution of a System of Linear Algebraic Equations - Part 7  
Lecture 18 - Solution of a System of Linear Algebraic Equations - Part 8  
Lecture 19 - Solution of a System of Linear Algebraic Equations - Part 9  
Lecture 20 - Solution of a System of Linear Algebraic Equations - Part 10  
Lecture 21 - Solution of a System of Linear Algebraic Equations - Part 11  
Lecture 22 - Solution of a System of Linear Algebraic Equations - Part 12  
Lecture 23 - Solution of a System of Linear Algebraic Equations - Part 13  
Lecture 24 - Solution of a System of Linear Algebraic Equations - Part 14  
Lecture 25 - Interpolation and Approximation - Part 1  
Lecture 26 - Interpolation and Approximation - Part 2  
Lecture 27 - Interpolation and Approximation - Part 3  
Lecture 28 - Interpolation and Approximation - Part 4  
Lecture 29 - Interpolation and Approximation - Part 5

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- Lecture 30 - Interpolation and Approximation - Part 6
- Lecture 31 - Interpolation and Approximation - Part 7
- Lecture 32 - Interpolation and Approximation - Part 8
- Lecture 33 - Interpolation and Approximation - Part 9
- Lecture 34 - Numerical Differentiation and Integration - Part 1
- Lecture 35 - Numerical Differentiation and Integration - Part 2
- Lecture 36 - Numerical Differentiation and Integration - Part 3
- Lecture 37 - Numerical Differentiation and Integration - Part 4
- Lecture 38 - Numerical Differentiation and Integration - Part 5
- Lecture 39 - Numerical Differentiation and Integration - Part 6
- Lecture 40 - Numerical Differentiation and Integration - Part 7
- Lecture 41 - Numerical Differentiation and Integration - Part 8