

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

NPTEL Video Course - Basic Courses (Semester 1 and 2) - Mathematics II

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Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Complex Integration
Lecture 2 - Contour Integration
Lecture 3 - Cauchy's Integral Theorem
Lecture 4 - Cauchy's Integral Formula
Lecture 5 - Application of Cauchy Integral Formula
Lecture 6 - Zeros, Singularities and Poles
Lecture 7 - Residue Integration Method
Lecture 8 - Residue Theorem
Lecture 9 - Evaluation of Real Integrals
Lecture 10 - Evaluation of Real Improper Integrals-1
Lecture 11 - Evaluation of Real Improper Integrals-2
Lecture 12 - Evaluation of Real Improper Integrals-3
Lecture 13 - Evaluation of Real Improper Integrals-4
Lecture 14 - Evaluation of Real Integrals - Revision
Lecture 15 - Matrix Algebra Part - 1
Lecture 16 - Matrix Algebra Part - 2
Lecture 17 - Determinants Part - 1
Lecture 18 - Determinants Part - 2
Lecture 19 - Solution of System Equation
Lecture 20 - Linear Algebra Part - 1
Lecture 21 - Linear Algebra part - 2
Lecture 22 - Linear Algebra Part - 3
Lecture 23 - Linear Algebra Part - 4
Lecture 24 - Inner Product
Lecture 25 - Linear Transformation Part - 1
Lecture 26 - Linear Transformation Part - 2
Lecture 27 - Eigenvalues Eigenvectors Part - 1
Lecture 28 - Eigenvalues Eigenvectors Part - 2
Lecture 29 - Quadratic Forms

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- Lecture 30 - Diagonalization Part - 1
- Lecture 31 - Diagonalization Part - 2
- Lecture 32 - Solution of System of Linear Equation
- Lecture 33 - Functions of Complex Variables Part - 1
- Lecture 34 - Functions of Complex Variables Part - 2
- Lecture 35 - Taylor Series
- Lecture 36 - Laurent Series
- Lecture 37 - Rank of a Matrix
- Lecture 38 - Complex Numbers Their Geometrical Representation