

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

NPTEL Video Course - Mathematics - NOC:Engineering Mathematics-I

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Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Rolle's Theorem
Lecture 2 - Mean Value Theorems
Lecture 3 - Indeterminate Forms - Part 1
Lecture 4 - Indeterminate Forms - Part 2
Lecture 5 - Taylor Polynomial and Taylor Series
Lecture 6 - Limit of Functions of Two Variables
Lecture 7 - Evaluation of Limit of Functions of Two Variables
Lecture 8 - Continuity of Functions of Two Variables
Lecture 9 - Partial Derivatives of Functions of Two Variables
Lecture 10 - Partial Derivatives of Higher Order
Lecture 11 - Derivative and Differentiability
Lecture 12 - Differentiability of Functions of Two Variables
Lecture 13 - Differentiability of Functions of Two Variables (Continued...)
Lecture 14 - Differentiability of Functions of Two Variables (Continued...)
Lecture 15 - Composite and Homogeneous Functions
Lecture 16 - Taylor's Theorem for Functions of Two Variables
Lecture 17 - Maxima and Minima of Functions of Two Variables
Lecture 18 - Maxima and Minima of Functions of Two Variables (Continued...)
Lecture 19 - Maxima and Minima of Functions of Two Variables (Continued...)
Lecture 20 - Constrained Maxima and Minima
Lecture 21 - Improper Integrals
Lecture 22 - Improper Integrals (Continued...)
Lecture 23 - Improper Integrals (Continued...)
Lecture 24 - Improper Integrals (Continued...)
Lecture 25 - Beta and Gamma Function
Lecture 26 - Beta and Gamma Function (Continued...)
Lecture 27 - Differentiation Under Integral Sign
Lecture 28 - Double Integrals
Lecture 29 - Double Integrals (Continued...)

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- Lecture 30 - Double Integrals (Continued...)
- Lecture 31 - Integral Calculus Double Integrals in Polar Form
- Lecture 32 - Integral Calculus Double Integrals
- Lecture 33 - Integral Calculus Double Integrals
- Lecture 34 - Integral Calculus Triple Integrals
- Lecture 35 - Integral Calculus Triple Integrals (Continued...)
- Lecture 36 - System of Linear Equations
- Lecture 37 - System of Linear Equations Gauss Elimination
- Lecture 38 - System of Linear Equations Gauss Elimination (Continued...)
- Lecture 39 - Linear Algebra - Vector Spaces
- Lecture 40 - Linear Independence of Vectors
- Lecture 41 - Vector Spaces Spanning Set
- Lecture 42 - Vector Spaces Basis and Dimension
- Lecture 43 - Rank of a Matrix
- Lecture 44 - Linear Transformations
- Lecture 45 - Linear Transformations (Continued....)
- Lecture 46 - Eigenvalues and Eigenvectors
- Lecture 47 - Eigenvalues and Eigenvectors (Continued...)
- Lecture 48 - Eigenvalues and Eigenvectors (Continued...)
- Lecture 49 - Eigenvalues and Eigenvectors (Continued...)
- Lecture 50 - Eigenvalues and Eigenvectors
- Lecture 51 - Differential Equations - Introduction
- Lecture 52 - First Order Differential Equations
- Lecture 53 - Exact Differential Equations
- Lecture 54 - Exact Differential Equations (Continued...)
- Lecture 55 - First Order Linear Differential Equations
- Lecture 56 - Higher Order Linear Differential Equations
- Lecture 57 - Solution of Higher Order Homogeneous Linear Equations
- Lecture 58 - Solution of Higher Order Non-Homogeneous Linear Equations
- Lecture 59 - Solution of Higher Order Non-Homogeneous Linear Equations (Continued...)
- Lecture 60 - Cauchy-Euler Equations