

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

NPTEL Video Course - Mathematics - NOC:Advanced Calculus For Engineers

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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 Theorem
Lecture 3 - Taylor's Formula (Single Variable)
Lecture 4 - Indeterminate Forms - Part 1
Lecture 5 - Indeterminate Forms - Part 2
Lecture 6 - Introduction to Limit
Lecture 7 - Evaluation of Limit
Lecture 8 - Continuity
Lecture 9 - First Order Partial Derivatives
Lecture 10 - Higher Order Partial Derivatives
Lecture 11 - Differentiability - Part 1
Lecture 12 - Differentiability - Part 2
Lecture 13 - Differentiability - Part 3
Lecture 14 - Differentiability - Part 4
Lecture 15 - Composite and Homogeneous Functions
Lecture 16 - Taylor's Theorem (Multivariable)
Lecture 17 - Maxima and Minima - Part 1
Lecture 18 - Maxima and Minima - Part 2
Lecture 19 - Maxima and Minima - Part 3
Lecture 20 - Maxima and Minima - Part 4
Lecture 21 - Formation of Differential Equations
Lecture 22 - First Order and First Degree DE
Lecture 23 - Exact Differential Equations
Lecture 24 - Integrating Factor
Lecture 25 - Linear Differential Equations
Lecture 26 - Introduction to Higher Order DEs
Lecture 27 - Complementary Function
Lecture 28 - Particular Integral
Lecture 29 - Cauchy-Euler Equations

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- Lecture 30 - Method of Variation of Parameters
- Lecture 31 - Improper Integral - Part 1
- Lecture 32 - Improper Integral - Part 2
- Lecture 33 - Improper Integral - Part 3
- Lecture 34 - Improper Integral - Part 4
- Lecture 35 - Beta and Gamma Function - Part 1
- Lecture 36 - Beta and Gamma Function - Part 2
- Lecture 37 - Differentiation under the Integral Sign
- Lecture 38 - Double Integrals - Part 1
- Lecture 39 - Double Integrals - Part 2
- Lecture 40 - Double Integrals - Part 3
- Lecture 41 - Double Integrals - Part 4
- Lecture 42 - Double Integrals - Part 5
- Lecture 43 - Double Integrals - Part 6
- Lecture 44 - Triple Integrals - Part 1
- Lecture 45 - Triple Integrals - Part 2
- Lecture 46 - Vector Functions
- Lecture 47 - Vector and Scalar Fields
- Lecture 48 - Divergence and Curl of a Vector Field
- Lecture 49 - Line Integrals
- Lecture 50 - Conservative Vector Fields
- Lecture 51 - Green's Theorem
- Lecture 52 - Surface Integrals - Part 1
- Lecture 53 - Surface Integrals - Part 2
- Lecture 54 - Stokes' Theorem
- Lecture 55 - Divergence Theorem
- Lecture 56 - Application of Derivatives
- Lecture 57 - Application of Derivatives (Continued...)
- Lecture 58 - Properties of Gradient, Divergence and Curl
- Lecture 59 - Properties of Gradient, Divergence and Curl (Continued...)
- Lecture 60 - Curl and Integrals