

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

NPTEL Video Course - Mathematics - NOC:Laplace Transform

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Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction and Motivation for Laplace transforms - Part 1
Lecture 2 - Introduction and Motivation for Laplace transforms - Part 2
Lecture 3 - Improper Riemann integrals
Lecture 4 - Improper Riemann integrals
Lecture 5 - Existence of Laplace transforms and Examples
Lecture 6 - Properties of Laplace transforms-I - Part 1
Lecture 7 - Properties of Laplace transforms-I - Part 2
Lecture 8 - Existence of Laplace transforms for functions with vertical asymptote at the Y-axis - Part 1
Lecture 9 - Existence of Laplace transforms for functions with vertical asymptote at the Y-axis - Part 2
Lecture 10 - Properties of Laplace transforms-II - Part 1
Lecture 11 - Properties of Laplace transforms-II - Part 2
Lecture 12 - Laplace transform of Derivatives - Part 1
Lecture 13 - Laplace transform of Derivatives - Part 2
Lecture 14 - Laplace transform of Periodic functions and Integrals - I
Lecture 15 - Laplace transform of Integrals-II - Part 1
Lecture 16 - Laplace transform of Integrals-II - Part 2
Lecture 17 - Inverse Laplace transform and asymptotic behaviour - Part 1
Lecture 18 - Inverse Laplace transform and asymptotic behaviour - Part 2
Lecture 19 - Methods of finding Inverse Laplace transform-I- Partial Fractions
Lecture 20 - Methods of finding Inverse Laplace transform-II- Convolution theorem
Lecture 21 - Convolution theorem for Laplace transforms
Lecture 22 - Applications of Laplace transforms
Lecture 23 - Applications of Laplace Transform to physical systems
Lecture 24 - Solving Linear ODE's with polynomial coefficients
Lecture 25 - Integral and Integro-differential equation
Lecture 26 - Further application of Laplace transforms - Part 1
Lecture 27 - Further application of Laplace transforms - Part 2

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