

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

NPTEL Video Course - Mathematics - NOC: Integral Transforms and their Applications

Subject Co-ordinator - Prof. Sarthok Sircar

Co-ordinating Institute - IIT - Delhi

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

Lecture 1 - Introduction to Fourier Transforms - Part 1
Lecture 2 - Introduction to Fourier Transforms - Part 2
Lecture 3 - Introduction to Fourier Transforms - Part 3
Lecture 4 - Properties of Fourier transforms, Shannon Sampling Theorem, Gibb's Phenomena - Part 1
Lecture 5 - Properties of Fourier transforms, Shannon Sampling Theorem, Gibb's Phenomena - Part 2
Lecture 6 - Properties of Fourier transforms, Shannon Sampling Theorem, Gibb's Phenomena - Part 3
Lecture 7 - Applications of Fourier Transforms - Part 1
Lecture 8 - Applications of Fourier Transforms - Part 2
Lecture 9 - Applications of Fourier Transforms - Part 3
Lecture 10 - Introduction to Laplace Transforms - Part 1
Lecture 11 - Introduction to Laplace Transforms - Part 2
Lecture 12 - Introduction to Laplace Transforms - Part 3
Lecture 13 - Inverse Laplace Transform, Initial and Final Value Theorems - Part 1
Lecture 14 - Inverse Laplace Transform, Initial and Final Value Theorems - Part 2
Lecture 15 - Inverse Laplace Transform, Initial and Final Value Theorems - Part 3
Lecture 16 - Applications of Laplace Transforms - Part 1
Lecture 17 - Applications of Laplace Transforms - Part 2
Lecture 18 - Applications of Laplace Transforms - Part 3
Lecture 19 - Applications of Laplace Transforms (Continued) - Part 1
Lecture 20 - Applications of Laplace Transforms (Continued) - Part 2
Lecture 21 - Applications of Laplace Transforms (Continued) - Part 3
Lecture 22 - Applications of Fourier-Laplace Transforms - Part 1
Lecture 23 - Applications of Fourier-Laplace Transforms - Part 2
Lecture 24 - Applications of Fourier-Laplace Transforms - Part 3
Lecture 25 - Introduction to Hankel Transforms - Part 1
Lecture 26 - Introduction to Hankel Transforms - Part 2
Lecture 27 - Introduction to Hankel Transforms - Part 3
Lecture 28 - Introduction to Mellin Transforms - Part 1
Lecture 29 - Introduction to Mellin Transforms - Part 2

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- Lecture 30 - Introduction to Mellin Transforms - Part 3
- Lecture 31 - Introduction to Hilbert Transforms - Part 1
- Lecture 32 - Introduction to Hilbert Transforms - Part 2
- Lecture 33 - Introduction to Hilbert Transforms - Part 3
- Lecture 34 - Applications of Hilbert Transforms, Introduction to Stieltjes Transform - Part 1
- Lecture 35 - Applications of Hilbert Transforms, Introduction to Stieltjes Transform - Part 2
- Lecture 36 - Applications of Hilbert Transforms, Introduction to Stieltjes Transform - Part 3
- Lecture 37 - Applications of Stieltjes Transform, Generalized Stieltjes Transform - Part 1
- Lecture 38 - Applications of Stieltjes Transform, Generalized Stieltjes Transform - Part 2
- Lecture 39 - Applications of Stieltjes Transform, Generalized Stieltjes Transform - Part 3
- Lecture 40 - Introduction to Legendre Transform - Part 1
- Lecture 41 - Introduction to Legendre Transform - Part 2
- Lecture 42 - Introduction to Legendre Transform - Part 3
- Lecture 43 - Introduction to Z-transform - Part 1
- Lecture 44 - Introduction to Z-transform - Part 2
- Lecture 45 - Introduction to Z-transform - Part 3
- Lecture 46 - Inverse Z-transform, Applications of Z-Transform - Part 1
- Lecture 47 - Inverse Z-transform, Applications of Z-Transform - Part 2
- Lecture 48 - Inverse Z-transform, Applications of Z-Transform - Part 3
- Lecture 49 - Introduction to Radon Transform - Part 1
- Lecture 50 - Introduction to Radon Transform - Part 2
- Lecture 51 - Introduction to Radon Transform - Part 3
- Lecture 52 - Inverse Radon Transform, Applications to Radon Transform - Part 1
- Lecture 53 - Inverse Radon Transform, Applications to Radon Transform - Part 2
- Lecture 54 - Inverse Radon Transform, Applications to Radon Transform - Part 3
- Lecture 55 - Introduction to Fractional Calculus - Part 1
- Lecture 56 - Introduction to Fractional Calculus - Part 2
- Lecture 57 - Introduction to Fractional Calculus - Part 3
- Lecture 58 - Fractional ODEs, Abel's Integral Equations - Part 1
- Lecture 59 - Fractional ODEs, Abel's Integral Equations - Part 2
- Lecture 60 - Fractional ODEs, Abel's Integral Equations - Part 3
- Lecture 61 - Fractional PDEs - Part 1
- Lecture 62 - Fractional PDEs - Part 2
- Lecture 63 - Fractional PDEs - Part 3
- Lecture 64 - Fractional ODEs and PDEs (Continued) - Part 1
- Lecture 65 - Fractional ODEs and PDEs (Continued) - Part 2
- Lecture 66 - Fractional ODEs and PDEs (Continued) - Part 3
- Lecture 67 - Introduction to Wavelet Transform - Part 1
- Lecture 68 - Introduction to Wavelet Transform - Part 2

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Lecture 69 - Introduction to Wavelet Transform - Part 3
Lecture 70 - Discrete Haar, Shanon and Debauchies Wavelet - Part 1
Lecture 71 - Discrete Haar, Shanon and Debauchies Wavelet - Part 2
Lecture 72 - Discrete Haar, Shanon and Debauchies Wavelet - Part 3