

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

NPTEL Video Course - Mathematics - NOC:Introduction to Methods of Applied Mathematics

Subject Co-ordinator - Prof. Vivek Kumar Aggarwal

Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Introduction to First Order Differential Equations
- Lecture 2 - Introduction to First Order Differential Equations (Continued...)
- Lecture 3 - Introduction to Second Order Linear Differential Equations
- Lecture 4 - Second Order Linear Differential Equations With Constant Coefficients
- Lecture 5 - Second Order Linear Differential Equations With Constant Coefficients (Continued...)
- Lecture 6 - Second Order Linear Differential Equations With Variable Coefficients
- Lecture 7 - Factorization of Second order Differential Operator and Euler Cauchy Equation
- Lecture 8 - Power Series Solution of General Differential Equation
- Lecture 9 - Green's function
- Lecture 10 - Method of Green's Function for Solving Initial Value and Boundary Value Problems
- Lecture 11 - Adjoint Linear Differential Operator
- Lecture 12 - Adjoint Linear Differential Operator (Continued...)
- Lecture 13 - Sturm-Liouville Problems
- Lecture 14 - Laplace transformation
- Lecture 15 - Laplace transformation (Continued...)
- Lecture 16 - Laplace Transform Method for Solving Ordinary Differential Equations
- Lecture 17 - Laplace Transform Applied to Differential Equations and Convolution
- Lecture 18 - Fourier Series
- Lecture 19 - Fourier Series (Continued...)
- Lecture 20 - Gibbs Phenomenon and Parseval's Identity
- Lecture 21 - Fourier Integral and Fourier Transform
- Lecture 22 - Fourier Integral and Fourier Transform (Continued...)
- Lecture 23 - Fourier Transform Method for Solving Ordinary Differential Equations
- Lecture 24 - Frames, Riesz Bases and Orthonormal Bases
- Lecture 25 - Frames, Riesz Bases and Orthonormal Bases (Continued...)
- Lecture 26 - Fourier Series and Fourier Transform
- Lecture 27 - Time-Frequency Analysis and Gabor Transform
- Lecture 28 - Window Fourier Transform and Multiresolution Analysis
- Lecture 29 - Construction of Scaling Functions and Wavelets Using Multiresolution Analysis

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- Lecture 30 - Daubechies Wavelet
- Lecture 31 - Daubechies Wavelet (Continued...)
- Lecture 32 - Wavelet Transform and Shannon Wavelet