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

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NPTEL Video Course - Mathematics - NOC: Partial Differential Equations (PDE) for Engineers: Solution by Separa
Subject Co-ordinator - Prof. S. De
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to PDE
Lecture 2 - Classification of PDE
Lecture 3 - Principle of Linear Superposition
Lecture 4 - Standard Eigen Value Problem and Special ODEs
Lecture 5 - Adjoint Operator
Lecture 6 - Generalized Sturm - Louiville Problem
Lecture 7 - Properties of Adjoint Operator
Lecture 8 - Separation of Variables
Lecture 9 - Solution of 3 Dimensional Parabolic Problem
Lecture 10 - Solution of 4 Dimensional Parabolic problem
Lecture 11 - Solution of 4 Dimensional Parabolic Problem (Continued...)
Lecture 12 - Solution of Elliptical PDE
Lecture 13 - Solution of Hyperbolic PDE
Lecture 14 - Orthogonality of Bessel Function and 2 Dimensional Cylindrical Coordinate System
Lecture 15 - Cylindrical Co-ordinate System - 3 Dimensional Problem
Lecture 16 - Spherical Polar Coordinate System
Lecture 17 - Spherical Polar Coordinate System (Continued...)
Lecture 18 - Example of Generalized 3 Dimensional Problem
Lecture 19 - Example of Application Oriented Problems
Lecture 20 - Examples of Application Oriented Problems (Continued...)
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