NPTEL Video Course - Mathematics - Optimization

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Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Optimization - Introduction
Lecture 2 - Formulation of LPP
Lecture 3 - Geometry of LPP and Graphical Solution of LPP
Lecture 4 - Solution of LPP
Lecture 5 - Big - M Method
Lecture 6 - Two - Phase Method
Lecture 7 - Special Cases in Simple Applications
Lecture 8 - Introduction to Duality Theory
Lecture 9 - Dual Simplex Method
Lecture 10 - Post Optimaility Analysis
Lecture 11 - Integer Programming - I
Lecture 12 - Integer Programming - II
Lecture 13 - Introduction to Transportation Problems
Lecture 14 - Solving Various types of Transportation Problems
Lecture 15 - Assignment Problems
Lecture 16 - Project Management
Lecture 17 - Critical Path Analysis
Lecture 18 - PERT
Lecture 19 - Shortest Path Algorithm
Lecture 20 - Travelling Salesman Problem
Lecture 21 - Classical optimization techniques
Lecture 22 - Unconstarined multivariable optimization
Lecture 23 - Nonlinear programming with equality constraint
Lecture 24 - Nonlinear programming KKT conditions
Lecture 25 - Numerical optimization
Lecture 26 - Numerical optimization
Lecture 27 - Fibonacci Method
Lecture 28 - Golden Section Methods
Lecture 29 - Interpolation Methods

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Lecture 30 - Unconstarined optimization techniques
Lecture 31 - Unconstarined optimization techniques
Lecture 32 - Nonlinear programming
Lecture 33 - Interior and Exterior penulty Function Method
Lecture 34 - Separable Programming Problem
Lecture 35 - Introduction to Geometric Programming
Lecture 36 - Constrained Geometric Programming Problem
Lecture 37 - Dynamic Programming Problem
Lecture 38 - Dynamic Programming Problem (Continued.)
Lecture 39 - Multi Objective Decision Making
Lecture 40 - Multi attribute decision making
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