

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

NPTEL Video Course - Mathematics - NOC:Constrained and Unconstrained Optimization

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Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to Optimization
- Lecture 2 - Assumptions and Mathematical Modeling of LPP
- Lecture 3 - Geometrey of LPP
- Lecture 4 - Graphical Solution of LPP - I
- Lecture 5 - Graphical Solution of LPP - II
- Lecture 6 - Solution of LPP
- Lecture 7 - Simplex Method
- Lecture 8 - Introduction to BIG-M Method
- Lecture 9 - Algorithm of BIG-M Method
- Lecture 10 - Problems on BIG-M Method
- Lecture 11 - Two Phase Method
- Lecture 12 - Two Phase Method
- Lecture 13 - Special Cases of LPP
- Lecture 14 - Degeneracy in LPP
- Lecture 15 - Sensitivity Analysis - I
- Lecture 16 - Sensitivity Analysis - II
- Lecture 17 - Problems on Sensitivity Analysis
- Lecture 18 - Introduction to Duality Theory - I
- Lecture 19 - Introduction to Duality Theory - II
- Lecture 20 - Dual Simplex Method
- Lecture 21 - Examples on Dual Simplex Method
- Lecture 22 - Interger Linear Programming
- Lecture 23 - Interger Linear Programming
- Lecture 24 - IPP
- Lecture 25 - Mixed Integer Programming Problem
- Lecture 26
- Lecture 27
- Lecture 28
- Lecture 29

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- Lecture 30
- Lecture 31 - Introduction to Nonlinear programming
- Lecture 32 - Graphical Solution of NLP
- Lecture 33 - Types of NLP
- Lecture 34 - One dimensional unconstrained optimization
- Lecture 35 - Unconstrained Optimization
- Lecture 36 - Region Elimination Technique - 1
- Lecture 37 - Region Elimination Technique - 2
- Lecture 38 - Region Elimination Technique - 3
- Lecture 39 - Unconstrained Optimization
- Lecture 40 - Unconstrained Optimization
- Lecture 41 - Multivariate Unconstrained Optimization - 1
- Lecture 42 - Multivariate Unconstrained Optimization - 2
- Lecture 43 - Unconstrained Optimization
- Lecture 44 - NLP with Equality Constrained - 1
- Lecture 45 - NLP with Equality Constrained - 2
- Lecture 46 - Constrained NLP - 1
- Lecture 47 - Constrained NLP - 2
- Lecture 48 - Constrained Optimization
- Lecture 49 - Constrained Optimization
- Lecture 50 - KKT
- Lecture 51 - Constrained Optimization
- Lecture 52 - Constrained Optimization
- Lecture 53 - Feasible Direction
- Lecture 54 - Penalty and barrier method
- Lecture 55 - Penalty method
- Lecture 56 - Penalty and barrier method
- Lecture 57 - Penalty and barrier method
- Lecture 58 - Dynamic programming
- Lecture 59 - Multi-Objective decision making
- Lecture 60 - Multi-Attribute decision making