

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

NPTEL Video Course - Mechanical Engineering - Advanced Operations Research

Subject Co-ordinator - Prof. G. Srinivasan

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction and Linear Programming
Lecture 2 - Revised Simplex Algorithm
Lecture 3 - Simplex Method for Bounded Variables
Lecture 4 - One Dimensional Cutting Stock Problem
Lecture 5 - One Dimensional Cutting Stock Problem (Continued.)
Lecture 6 - Dantzig-Wolfe Decomposition Algorithm
Lecture 7 - Dantzig-Wolfe Decomposition Algorithm Primal-Dual Algorithm
Lecture 8 - Primal-Dual Algorithm
Lecture 9 - Goal Programming-Formulations
Lecture 10 - Goal Programming Solutions Complexity of Simplex Algorithm
Lecture 11 - Complexity of Simplex Algorithm (Continued.) Integer Programming
Lecture 12 - Integer Programming-Formulations
Lecture 13 - Solving Zero-One Problems
Lecture 14 - Solving Zero-One Problems (Continued.)
Lecture 15 - Branch And Bond Algorithm For Integer Programming
Lecture 16 - Cutting Plane Algorithm
Lecture 17 - All Integer Primal Algorithm
Lecture 18 - All Integer Dual Algorithm
Lecture 19 - Network Models
Lecture 20 - Shortest Path Problem
Lecture 21 - Successive Shortest Path Problem
Lecture 22 - Maximum Flow Problem
Lecture 23 - Minimum Cost Flow Problem
Lecture 24 - Traveling Salesman Problem (TSP)
Lecture 25 - Branch and Bound Algorithms for TSP
Lecture 26 - Heuristics for TSP
Lecture 27 - Heuristics for TSP (Continued.)
Lecture 28 - Chinese Postman Problem
Lecture 29 - Vehicle Routeing Problem

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- Lecture 30 - Queueing Models
- Lecture 31 - Single Server Queueing Models
- Lecture 32 - Multiple Server Queueing Models
- Lecture 33 - Game Theory
- Lecture 34 - Critical Path Method
- Lecture 35 - Quadratic Programming
- Lecture 36 - Integer Programming (Continued.)
- Lecture 37 - All Integer Dual Algorithm
- Lecture 38 - Mixed Integer Linear Programming
- Lecture 39 - Benders Partitioning Algorithm