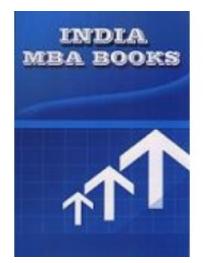# OPERATIONS RESEARCH

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UNIT-II:
LPP - Simplex Method - Big M Method - Two Phase Method - Solution to LPP problems for Maximization and Minimization Cases-Degeneracy - Concept of Duality.

UNIT-III:
Transportation Problem (TP) - IBFS using Northwest Corner Method-Least Cost Entry Method (LCM) and Vogel's Approximation Method (VAM) - Unbalanced TP-Degeneracy- Optimality Test using MODI method and SSM- Business applications of TP.

UNIT-IV:
Assignment Problem (AP): Optimal Solution- Hungarian Method- Unbalanced AP-Restricted AP-Travelling salesman problem- Business applications of AP- Simulation-Process of simulation-Applications of simulation to different management Problems-Waiting Line Simulation Model-Inventory Simulation Model.

UNIT-V:
Waiting Lines - Concepts of Queue/Waiting Line- Basic structure of Queuing Models-Kendall-Lee Notations - Operating characteristics of Queue System - Cost Associated with Queuing - Single Channel Queuing model with Poisson Arrivals and Exponential Service rate

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