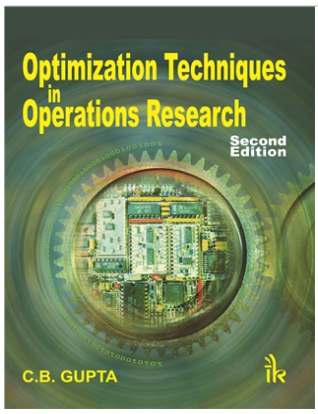
Book Information Sheet



Optimization Techniques in Operation Research, 2/e

C. B. Gupta

2012 | 386 pp | Paperback | ISBN: 9789381141670 | Price: 325.00

About the Book

This book meets the requirements of Engineering/Science and Management students at graduate and postgraduate level.

New in this Edition

Two new chapters, viz., "Introduction to Optimization", "Classical Optimization Techniques", some more solved, unsolved examples and a new article on processing 2-jobs through k-machines in Chapter 13, have been added in the present edition.

Salient Features

- Linear Programming including duality and sensitivity analysis.
- Non-linear programming including quadratic and separable programming.
- Transport and assignment problem.
- Game theory.
- Integer programming including Traveling Salesman problem.
- Goal programming including multi-objective programming.
- Network analysis (CPM and PERT).
- Sequencing problem.
- Dynamic programming.

Table of Contents

- Introduction to Optimization
- Linear Programming Problem
- Duality in Linear Programming
- Sensitivity Analysis
- Transportation and Assignment Problems
- Integer Linear Programming and Travelling Salesman Problem
- Dynamic Programming
- Game Theory
- Classical Optimization Techniques
- Non-Linear Programming
- Networking
- Linear Goal Programming
- Sequencing
- Index.

About the Author

C. B. Gupta :- **C.B. Gupta**, a faculty of Mathematics at Birla Institute of Technology and Science, Pilani (Rajasthan), obtained his Master's degree in Mathematical Statistics and Ph.D. in Operations Research from Kurukshetra University, Kurukshetra (Haryana). He has more than 20 years of teaching experience of graduate and postgraduate classes. His areas of interest are Applied Statistics and Operations Research. He has guided a number of students on these topics for their thesis and dissertation. He has number of research papers and books including *Probability and Statistics for Engineers* and *Quantitative Methods* to his credit.