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Business and Management : Operation Research/Decision Theory

Luc, Dinh The

Multiobjective Linear Programming

An Introduction

- Provides an accessible introduction to the field of multiobjective optimization
- Begins with an elementary and concise review of the mathematical backgrounds
- Presents basic notions and advanced developments in the field, amply illustrated with computational examples
- Includes three popular methods for solving multiobjective linear programs: the multiobjective simplex method, normal direction method and outcome space method

This book introduces the reader to the field of multiobjective optimization through problems with simple structures, namely those in which the objective function and constraints are linear. Fundamental notions as well as state-of-the-art advances are presented in a comprehensive way and illustrated with the help of numerous examples. Three of the most popular methods for solving multiobjective linear problems are explained, and exercises are provided at the end of each chapter, helping students to grasp and apply key concepts and methods to more complex problems. The book was motivated by the fact that the majority of the practical problems we encounter in management science, engineering or operations research involve conflicting criteria and therefore it is more convenient to formulate them as multicriteria optimization models, the solution concepts and methods of which cannot be treated using traditional mathematical programming approaches.

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