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Business and Management : Operations Management

Rao, Ravipudi Venkata

Decision Making in the Manufacturing Environment

Using Graph Theory and Fuzzy Multiple Attribute Decision Making Methods

- Demonstrates how graph theory and matrix approach, and fuzzy multiple attribute decision making methods can be effectively used for decision making in various situations of the manufacturing environment
- Proposes a methodology that will make decision making in the manufacturing environment structured and systematic
- Uses case studies to present the applications of decision making methods in real manufacturing situations

Recent worldwide advances in manufacturing technologies led to a metamorphosis in the industry. Fast-changing technologies on the product front have created a need for an equally fast response from manufacturing industries, who select manufacturing strategies, product designs, manufacturing processes, and machinery and equipment. Decision makers have the problem of assessing a range of options and selecting one based on conflicting criteria. This book shows how graph theory and matrix approach, and fuzzy multiple attribute decision making methods can be used in manufacturing. Part I introduces the decision making situations in the manufacturing environment and presents decision making methods; Part II uses case studies to illustrate the applications of these methods in real manufacturing situations. This book will interest designers, manufacturing engineers, practitioners, managers, institutes involved in design and manufacturing related projects, researchers, academics, and graduates in this field.

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