



Decision Making and Operations Research Techniques for Construction Management

By C. M. TAM, Thomas K. L. TONG, H. ZHANG

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Decision Making and Operations Research Techniques for Construction Management challenges the traditional empirical approach to problem solving and provides construction practitioners with a seasoned account to resolving day-to-day complicated issues in construction project management.

With over 150,000 workers at different levels working at dispersed project sites throughout the territory, construction managers have to look for optimal solutions to minimize the costs and to maximize the efficiencies. This book provides scientific tools for practitioners to resolve some practical problems which are administered empirically at present and may lead to inconsistent results and human errors. The modern decision-making tools introduced in this book include Multi-criteria Decision-making Models, Artificial Neural Network, Genetic Algorithms, Construction Simulation, Rough Set Theory and Advanced Statistical Techniques for construction.

This book will serve as a useful companion for those managing construction projects that are becoming more and more quantitative in nature, and will provide an invaluable source of reference for both undergraduate and advanced postgraduate students.

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