



# Construction Program Management – Decision Making and Optimization Techniques

*By Ali D. Haidar*

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Exploring complex and intelligent analytical and mathematical methods, this book examines how different approaches can be used to optimize program management in the construction industry. It presents an in-depth study of the different program management methods, ranging from simple decision-making techniques and statistics analysis to the more complex linear programming and demonstrates how knowledge-base systems and genetic algorithms can be used to optimize resources and meet time, budget and quality criteria. It addresses topics including decision-making principles, planning and scheduling, mathematical forecasting models, optimization techniques programming and artificial intelligence techniques. Providing a valuable resource for anyone managing multiple projects in the construction industry, this book is intended for civil and construction engineering students, project managers, construction managers and senior engineers.

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About the Author

Prof Ali D. Haidar, BSc, MSc, PhD has been extensively active in the construction industry for more than 25 years, and is currently a consultant for Dar al Riyadh (Engineering and Architecture) based in Saudi Arabia. He is a member of Institute of Transportation Engineers (USA), Institute of Civil Engineers (Lebanon) and Institute of Civil Engineers (Great Britain). Prof Haidar has also published two books and several journal papers on construction management and decision making techniques for the construction industry.

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