



# Modern Construction Management

By Frank Harris, Ronald McCaffer

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**Modern Construction Management** By Frank Harris, Ronald McCaffer

This new edition of a core undergraduate textbook for construction managers reflects current best practice, topical industry preoccupations and latest developments in courses and fundamental subjects for students.

While the construction process still requires traditional skills, changes over recent decades today demand improved understanding of modern business, production and contractual practices. The authors have responded accordingly and the book has undergone a thorough re-write, eliminating some of the older material and adding new processes now considered essential to achieving lean construction. Particular emphasis is given, for example, to supply chains and networks, value and risk management, BIM, ICT, project arrangements, corporate social responsibility, training, health and welfare and environmental sustainability.

*Modern Construction Management* presents construction as a socially responsible, innovative, carbon-reducing, manager-involved, people-orientated, crisis-free industry that is efficient and cost effective. The overall themes for the Seventh Edition are:

1. **Drivers for efficiency:** lean construction underpinning production management and off-site production methods.
2. **Sustainability:** reflecting the transition to a low carbon economy.
3. **Corporate Social Responsibility:** embracing health & safety, modernistic contracts, effective procurement, and employment issues.
4. **Building Information Management:** directed towards the improvement of construction management systems.

The comprehensive selection of worked examples, based on real and practical situations in construction management and methods will help to consolidate learning. A companion website at [www.wiley.com/go/MCM7](http://www.wiley.com/go/MCM7) offers invaluable support material for both tutors and students:

- Solutions to the self-learning exercises
- PowerPoint slides with discussion topics
- Journal and web references

Structured to reflect site, business and corporate responsibilities of managers in

construction, the book continues to provide strong coverage of the salient elements required for developing and equipping the modern construction manager with the competencies and skills for both technical and business related areas.

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### Editorial Review

#### Review

“This is a comprehensive and in-depth book covering an evolving discipline that is undergoing a technological modernisation, particularly with building information modelling.” (*Civil Engineering*, 1 August 2014)

“Modern Construction Management is a textbook for advanced studies in construction management. It is a substantial volume of 572 pages with general descriptions, partly detailed texts, numerous examples and references.” (*Construction Management and Economics*, 8 January 2014)

“I highly recommend the landmark and very modern best practices oriented textbook Modern Construction Management, Seventh Edition by Frank Harris, Ph.D., and Ronald McCaffer, Ph.D., to any students and graduates in civil engineering, construction management, building and quantity surveying, corporate leaders, and government policy makers seeking a clear and all encompassing guide to the current business, technical, environmental, and societal issues and challenges of modern construction management. This book is a tremendous starting point for students and professionals at any level of construction project management.” (*Blog Business World*, 10 May 2013)

#### From the Back Cover

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**Francis Edum-Fotwe**, BSc, MSc, PhD, MASCE is Lecturer in Construction and Project Management at Loughborough University.

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