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Nota di contenuto	Cover -- Title page -- Copyright page -- Contents -- Preface to the sixth edition -- Preface to the seventh edition -- Chapter 1: Introduction -- Structure of the book -- Objectives and contents -- Section 1 -- Section 2 -- Section 3 -- Section 4 -- Chapter 2: Quality management -- Summary -- Introduction -- Notions of quality -- Quality in transition -- Quality control and inspection -- Definition and objectives of quality control -- Controlling quality -- Quality control implemented in construction -- Quality assurance -- Evolution of QA from quality control -- Definition of quality terms -- Quality standards -- Developing and implementing quality systems -- Quality assurance in construction -- Total Quality Management -- Definition of TQM and the role of QA in the process -- Total Quality Management principles -- Development of TQM in a company -- Total Quality Management tools and techniques -- A systems approach to managing quality -- Systems quality management -- Quality schemes -- Reference -- Section 1: Project production management -- Chapter 3: Production process improvement -- Summary -- Introduction to lean construction -- Productivity -- Economic development -- Energy consumption -- Sustainability -- International environmental protocols -- UK emissions -- Productivity improvement -- Management systems -- Management processes (BSI (2002), BS 6079-1:2002) -- Employee participation --

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worked examples -- An example demonstrating the inclusion of corporation tax -- Including an investment grant -- Example of optimal replacement age based on minimum equivalent annual costs. Example showing the effect of interest rates on present-worth calculations.

Sommario/riassunto

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: Drivers for efficiency: lean construction underpinning production management and off-site production methods. Sustainability: reflecting the transition to a low carbon economy. Corporate Social Responsibility: embracing health & safety, modernistic contracts, effective procurement, and employment issues. 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 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.