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In 1991 the Chartered Institute of Building initiated

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a multi-institute task force and a Code of Practice for Project Management was published in 1992, with a second edition in 1996. Like previous editions, this third edition has been substantially revised to embody the results of intensive consultation between the CIOB and representatives of the professional bodies concerned with construction and development. The Code is divided into two sections: the first covers eight stages associated with projects from inception to completion, each one well supported with diagrams, flowcharts and checklists the second section contains a project handbook, complete with guidance documentation and checklists. The third edition features new guidance on:

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project planning EU procurement procedures
performance management plan partnering project risk
assessment environmental impact assessment
procurement options and value for money framework.
Effective project management involves the assessment
and management of risk, and this is a strong theme
throughout the Code. The Code of Practice provides an
authoritative guide to the principles and practice of
construction project management. It will be a key
reference source for clients, contractors
and professionals, irrespective of the size and nature of
the project. Much of the information is also relevant to
project managers in other commercial spheres. On the

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last edition The code is an outstanding example of collaboration between key professional industry bodies working in a team ... it represents a significant step forward ... to help achieve successful outcomes for both clients and the construction industry. Sir Michael Latham I strongly recommend this valuable multi-institutional code of practice to all who are involved in construction project management and development Sir Stuart Lipton

The essential risk assessment guide for civil engineering, design, and construction Risk management allows construction professionals to identify the risks inherent in all projects, and to provide

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the tools for evaluating the probabilities and impacts to minimize the risk potential. This book introduces risk as a central pillar of project management and shows how a project manager can be prepared for dealing with uncertainty. Written by experts in the field, Risk Management for Design and Construction uses clear, straightforward terminology to demystify the concepts of project uncertainty and risk. Highlights include:

- Integrated cost and schedule risk analysis
- An introduction to a ready-to-use system of analyzing a project's risks and tools to proactively manage risks
- A methodology that was developed and used by the Washington State Department of Transportation Case

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studies and examples on the proper application of principles Information about combining value analysis with risk analysis "This book is a must for professionals who are seeking to move towards a proactive risk-centric management style. It is a valuable resource for students who are discovering the intricacies of uncertainties and risks within value estimation. For professionals, the book advocates for identifying and analyzing 'only' risks whose impact are of consequence to a project's performance." —JOHN MILTON, PHD, PE Director of Enterprise Risk Management, Washington State Department of Transportation Demands on the construction industry are changing,

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and it is now virtually essential for environmental management to be considered at all stages of a project. Many construction managers are finding a quantitative approach useful, and this book outlines four quantitative methods which can be applied at different construction stages, and which fit within a comprehensive framework of dynamic Environmental Impact Assessment (EIA). These include: a method to quantitatively evaluate and reduce pollution and hazards levels a method to evaluate the environmental-consciousness of proposed construction plans a method to reduce on-site construction wastes through an incentive reward programme a method to promote

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C and D waste exchange in the local construction industry. With an experimental case study of the application of these methods, this book delivers a comprehensive review of environmental management issues in construction. With regulatory requirements potentially favouring the quantitative approach, this timely guide ensures that contractors will be able to keep pace with environmental management standards. Much has been written about Building Information Modelling (BIM) driving collaboration and innovation, but how will future quality managers and engineers develop digital capabilities in augmented and video realities, with business intelligence platforms, robots,

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new materials, artificial intelligence, blockchains, drones, laser scanning, data trusts, 3D printing and many other types of technological advances in construction? These emerging technologies are potential game changers that require new skills and processes. Digital Quality Management in Construction is the first 'how to' book on harnessing novel disruptive technology in construction quality management. The book takes a tour of the new technologies and relates them to the management of quality, but also sets out a road map to build on proven lean construction techniques and embed technologically based processes to raise quality

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professionals' digital capabilities. With the mountain of data being generated, quality managers need to unlock its value to drive the quality of construction in the twenty-first century, and this book will help them do that and allow those working in construction Quality Management to survive and thrive, creating higher quality levels and less waste. This book is essential reading for quality managers, project managers and all professionals in the Architecture, Engineering and Construction industry (AEC). Students interested in new and disruptive technologies will also learn a great deal from reading this book, written by a professional quality manager with nearly thirty years' experience

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in both the public and private sectors.

Management in the construction industry is a complex task, with team members often undertaking hazardous work, complying with stacks of regulations and legal requirements, and under the constant threat of plans going awry, however there is no need for all construction management textbooks to be so complicated. Starting with a general overview of the industry, Introduction to Construction Management is the beginner ' s guide to key concepts, terms, processes and practices associated with modern construction management in the UK. Supported by diagrams, illustrations and case studies, this book

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explores construction management from a variety of perspectives, including: Production management Commercial management Quality management Health and Safety management Environmental management Also incorporated are important industry trends including sustainability, corporate social responsibility, and the advent of BIM. This is the most approachable text available for anyone starting to learn about construction management, at HNC/HND, FdSc, or BSc level.

The proceedings of the CIB W65 Symposium on the Organization and Management of Construction conference are presented here and in the companion

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volumes as state-of-the-art papers documenting research and innovative practice in the field of construction. The volumes cover four broad themes: business management, project management, risk management, IT development and applications. Each volume is organized to provide easy reference so that the practitioner can speedily extract up to date information and knowledge about the global construction industry. Managing the Construction Enterprise (Volume One): Covers the firm and its business environment, markets and marketing, human resource management strategic planning, and quality management. Managing the Construction Project

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(Volume Two): focuses upon productivity, procurement, international projects and human issues in relation to management performance of construction organisations. Managing Risk (Volume Two): incorporates discussion of risk away from regulation by government and those safety risks inherent in the construction process. Managing Construction Information (Volume Three, published in conjunction with Construct IT Centre of Excellence): incorporates material on information systems and methods, application of IT to the design and construction processes and how IT theory and applications are best transmitted to students and practitioners. The work

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represents a collation of wide ranging ideas and theory about construction and how research has contributed to the development of the industry on a global application of research to the problems of the construction industry.

This book reviews the general theory of strategy, relates it to the particular circumstances of the construction industry, and shows how it can be applied in practice. It brings together ideas from economics, marketing, management, business and politics to develop strategic management for both contractors' firms and the associated professions. Substantial changes have occurred in the industry since the book

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was first published in 1991. This Second Edition reflects the major developments that have followed the Latham and Egan reports, and includes new chapters on international strategy and marketing, showing how they can contribute to the strategic planning of construction organizations. The book will provide a valuable tool for the strategic development of construction firms. "Ten years separate the editions during which period a significant number of British, (and other), construction firms which had survived generations of proprietors merged, changed beyond recognition or ceased trading. One can not but wonder if publication of a work on strategic planning some

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twenty year earlier might have saved some of them."
Construction Manager "The book presents the essential
elements for managing at this higher level and should
be a must for any construction professional who aspires
to an executive position in industry as well as any
student for construction management, project
management and organizational management in
construction. It comes highly recommended"
Engineering, Construction and Architectural
Management

The management of construction projects is a wide
ranging and challenging discipline in an increasingly
international industry, facing continual challenges and

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demands for improvements in safety, in quality and cost control, and in the avoidance of contractual disputes. Construction Management grew out of a Leonardo da Vinci project to develop a series of Common Learning Outcomes for European Managers in Construction. Financed by the European Union, the project aimed to develop a library of basic materials for developing construction management skills for use in a pan-European context. Focused exclusively on the management of the construction phase of a building project from the contractor ' s point of view, Construction Management covers the complete range of topics of which mastery is required by the

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construction management professional for the effective delivery of new construction projects. With the continued internationalisation of the construction industry, Construction Management will be required reading for undergraduate and postgraduate students across Europe.

[Performance Improvement in Construction Management](#)

[Construction Business Management](#)

[Aspects of Theory](#)

[Risk and Financial Management in Construction](#)

[The Organization and Management of Construction](#)

[A Quantitative Approach](#)

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[Cost Accounting and Financial Management for
Construction Project Managers](#)

[Infrastructure Development and Construction
Management](#)

[Project Scheduling and Management for Construction
Scope, Schedule, and Cost Control](#)

The book is developed to provide significant information and guidelines to construction and project management professionals (owners, designers, consultants, construction managers, project managers, supervisors, contractors, builders, developers, and many others from the construction-

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related industry) involved in construction projects (mainly civil construction projects, commercial-A/E projects) and construction-related industries. It covers the importance of construction management principles, procedures, concepts, methods, and tools, and their applications to various activities/components/subsystems of different phases of the life cycle of a construction project. These applications will improve the construction process in order to conveniently manage the project and make the project most qualitative, competitive, and economical. It also discuss the interaction and/or

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combination among some of the activities/elements of management functions, management processes, and their effective implementation and applications that are essential throughout the life cycle of project to conveniently manage the project. This handbook will: Focus on the construction management system to manage construction projects Include a number of figures and tables which will enhance reader comprehension Provide all related topics/areas of construction management Be of interest to all those involved in construction management and project management Provide information about Building

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Information Modeling (BIM), and ISO Certification in Construction Industry Offer a chapter on Lean construction The construction project life cycle phases and its activities/elements/subsystems are comprehensively developed and take into consideration Henri Fayol's Management Function concept which was subsequently modified by Koontz and O'Donnell and Management Processes Knowledge Areas described in PMBOK® published by Project Management Institute (PMI). The information available in the book will also prove valuable for academics/instructors to provide

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construction management/project management students with in-depth knowledge and guidelines followed in the construction projects and familiarize them with construction management practices. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Construction is a risky business! And unfortunately the reality is that construction company managers often lack the necessary “business management” skills needed to ensure the survival of their firms. This groundbreaking new book is the first

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of its kind that consolidates critical business management topics, and presents them practically and accessibly by showing how they relate to the management of a construction company.

Management of Construction introduces all aspects of management practice to students and professionals based in the construction industry. It is also important for those involved in allied fields such as design, project development, and site monitoring and inspection. The book addresses each stage of the construction project from conception to completion, giving a perspective on the whole life cycle often

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missing from textbooks. The author also balances engineering concerns with the human resource and personal aspects of construction management that are so important to the successful outcome of a project.

Construction Project Management offers some of the best project management studies commissioned by ELECTRI International: The Foundation for Electrical Construction that were selected, coordinated, and monitored by some of the most progressive contractors and performed by outstanding scholars from top U.S. universities. Topics include pre-

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construction planning, early warning signs of project distress, impact of change orders, project sequencing, ideal jobsite inventory levels, tool and material control systems, recommended safety practices, partnering, total quality management, quality assurance, performance evaluations, and contract risk management. All specialty and general contractors will find value in this practical book. The concepts presented will improve your understanding of the main issues affecting construction project management and will provide you with tools and strategies to enhance your company's productivity and profitability.

Students studying construction management and related subjects need to have a broad understanding of the major aspects of controlling the building processes. Operations Management for Construction is one of three textbooks (Business Organisation, Operations Management and Finance Control) written to systematically cover the field. Focusing on construction sites and operations which are challenging to run, Chris March explores issues such as the setting up of the site, the deciding of the methodology of construction, and the sequence of work and resourcing. As changing and increasing

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regulations affect the way sites are managed, he also considers the issues and methods of successful administering, safety, quality and environment. Finally, the contractor's responsibility to the environment, including relationships with third parties, selection of materials, waste management and sustainability is discussed. Chris March has a wealth of practical experience in the construction industry, as well as considerable experience of teaching, which he uses to support the theory and principles set out in the book. The book covers Risk Management describing the tools and methods to reduce the occurrence and

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consequences of risk, and the financial management of construction projects from raising funding, to contract strategy and through to estimating, budgeting and cost control. It includes a chapter covering international project risk, bringing together the issues of risk management, prime contracting, and PFI funding for construction projects undertaken away from the contractors main home market.

This book provides an understanding of Business Continuity Management (BCM) implementation for local/international construction operations, with a primary focus on Indonesian construction firms as an

illustrative example. It reviews the whole spectrum of work relating to organizational culture (OC) and the institutional framework (IF) as one of the key ways for companies to evaluate and implement BCM in construction operations. Once readers have acquired a sound understanding of BCM, OC and IF linkages in construction firms, the lessons learned can be extended to other companies. This is facilitated through a systematic assessment framework presented in the book using a Knowledge Based Decision Support System (BCM-KBDSS), which allows these companies to evaluate their current

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status quo with respect to BCM, OC and IF, and then make informed decisions on how and to what extent BCM should be implemented in their operations. As such, the book offers a unique blend of theory and practice, ensuring readers gain a far better understanding of BCM implementation in the construction industry.

This book offers a new approach to the management of resources within the construction industry, and with special reference to smaller construction companies. A systems approach, based on a case study, is adopted to describe how the basic production

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resources are planned for, monitored and managed. Each resource is considered in detail, highlighting its associated problems for management, the aim being to develop a structured approach to the management of each resource within an overall integrated framework. The early chapters examine the problems of resource control; they describe the economic, financial, social and legal constraints under which management decisions are taken. Subsequent chapters deal with manpower, materials, plant and subcontracting. Then come several chapters that examine costs from the viewpoint of classification,

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monitoring and control. The closing chapters discuss resource cosy management and cashflow, culminating in a final chapter that demonstrates how an integrated systems of cost and cashflow management may be operated.

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[Managing According to the Project Lifecycle](#)

[A Practical Guide to Field Construction Management](#)

[The Management of Construction](#)

[Construction Process Planning and Management](#)

[Construction Management JumpStart](#)

[Quality Management in Construction Projects](#)

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Management of Construction Projects

Construction Management

A Practical Guide for Building and Electrical Contractors

Management of Construction introduces all aspects of management practice to students and professionals based in the construction industry. It is also important for those involved in allied fields such as design, project development, and site monitoring and inspection. The book addresses each stage of the construction project from conception to completion, giving a perspective on the whole life cycle often missing from textbooks. The author

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also balances engineering concerns with the human resource and personal aspects of construction management that are so important to the successful outcome of a project. *Structured on the project life cycle *Covers design-build, build-own-operate-transfer, and construction management *Discusses environmental issues important in today's construction practice Residential Construction Management will provide construction managers a concise and practical guide to managing residential construction projects. One of the fundamental reasons residential contractors fail to prosper is that they are poor managers. By presenting project

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management tools in their appropriate context of the project lifecycle—initiation, planning, execution, monitoring and controlling, and closing, readers will more clearly understand the iterative nature of construction management, which is a key to successfully managing a construction project. You can't afford to be without this indispensable working tool and its step-by-step instructions, project management templates, and real-world case studies. Residential Construction Management provides construction managers a concise and practical guide to managing residential construction projects. One of the fundamental reasons residential contractors fail to

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prosper is that they are poor managers. By presenting project management tools in their appropriate context of the project lifecycle — initiation, planning, execution, monitoring and controlling, and closing — you will more clearly understand the true nature of construction management, which is a key to successfully managing a construction project. You can't afford to be without this indispensable working tool and its step-by-step instructions, project management templates, and real world case studies. Key Features | Walks you through the entire project management lifecycle resulting in a better understanding of the iterative processes of construction

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management | Offers the information and real world tools needed to successfully apply to a planned or current project | Shows how various knowledge areas and project management tools interact when doing a project providing you with the knowledge to create your own project plan | Offers a downloadable building specification form, change order authorization form, construction schedule, sample budget, construction flowchart, a guide to working with bankers for spec home loans, and much more — available from the Web Added Value™ Download Resource Center at www.jrosspub.com

By their very nature, construction projects can create

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seemingly endless opportunities for conflict. Written by a best selling author with over 40 years of experiences in the construction and general contracting business, Construction Process Planning and Management provides you with the necessary tools to save time and money on your construction project. In this book, Sid Levy provides valuable advice for avoiding or working through the common problems that are a result of the long-term nature of construction projects, failure to select a ?project delivery system? appropriate to the project, incomplete drawing and specifications, unrealistic scheduling, poor communication and coordination among participants, and

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inadequate contract administration. From project genesis, through design development to contractor and contract selection, on to construction oversight, punch list and successful project close-out, this book will point out those pitfalls to avoid and offer practical advice at every step along the way. Administer the general construction process including solicitation of contractor's qualifications (pre-qualify bidders), comparative analysis of bid packages, recommendation for contract award, contract document negotiation and documentation of job change orders Provide Project Planning and on-site management and coordination of all construction projects Ensure

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compliance of building construction rules and regulations and collaborate with chief engineers to monitor quality of construction Conduct technical/plan review of construction documents and submit written responses identifying required corrections or changes Design, implement and oversee Company standards for construction policies, practices and processes

A key problem facing the construction industry is that all work is done by transient project teams, and in the past there has been no structured approach to learning from projects once they are completed. Now, though, the industry is adapting concepts of knowledge management

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to improve the situation. This book brings together 13 contributors from research and industry to show how managing construction knowledge can bring real benefits to organisations and projects. It covers a wide range of issues, from basic definitions and fundamental concepts, to the role of information technology, and engendering a knowledge sharing culture. Practical examples from construction and other industry sectors are used throughout to illustrate the various dimensions of knowledge management. The challenges of implementing knowledge management are outlined and the ensuing benefits highlighted.

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Novel research in construction management is often distant from existing practice. This collection of reviews serves to bridge this gap under three major themes: innovation, organisation and human behaviour, and methods and tools. It outlines a series of successful collaborative projects between industry and the academic and research communities. Many of the authors have worked in technology transfer, as change agents, resolving industrially-relevant problems by using scientifically-based research. The book reveals the source of ideas, data and results to provide a useful resource for researchers, academics and graduate students, and a challenging guide

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for senior industry managers.

Launch your career in construction management with this one-of-a-kind book The construction management industry is expected to increase employment by 16 percent over the next decade. This second edition of a bestselling introduction to construction management walks you through each stage of the construction management process. Written from the constructor's perspective, this book will familiarize you with all the construction management fundamentals and how Building Information Modeling (BIM) is impacting the construction management profession. Covers

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interoperability of technology advances in the construction industry Explains how BIM is challenging the traditional approach to project delivery and how this affects the constructor's role Elaborates each stage of the design and construction process and the tasks associated with each of them Shows step-by-step how to estimate project costs, administer contracts, manage job site and construction operations, plan and schedule a project, monitor project performance, manage project quality and safety, and assess project risks Provides review questions at the end of each chapter to help enforce understanding The tried-and-true project management principles

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presented in this book will help ensure you a successful start to your career.

Unlike the majority of construction project management textbooks out there, Management of Construction Projects takes a distinctive approach by setting itself in the context of a single and real-world construction project throughout and also by looking at construction project management from the constructor's perspective. This project-based learning approach emphasizes the skills, knowledge, and techniques students require to become successful project managers. This second edition uses a brand new, larger, and more challenging case study to take students through

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key stages of the process, including: contracts and subcontracting; estimating, scheduling, and planning; supply chain and materials management; cost control, quality, and safety; project leadership and ethics; and claims, disputes, and project close-outs. Also new to this edition is coverage of emergent industry trends such as LEAN, LEED, and BIM. The book contains essential features such as review questions, exercises, and chapter summaries, while example plans, schedules, contracts, and other documents are stored on a companion website. Written in straightforward language from a constructor's perspective, this textbook gives a realistic overview and

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review of the roles of project managers and everything they need to know in order to see a successful project through from start to finish.

First published in 1988 by RS Means, the new edition of Project Scheduling and Management for Construction has been substantially revised for students enrolled in construction management and civil engineering programs. While retaining its emphasis on developing practical, professional-level scheduling skills, the new edition is a relatable, real-world case study that can be used over the course of a semester. The book also includes classroom elements like exercises, quizzes, skill-building exercises,

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as well as an instructor's manual including two additional
new cases.

[Value Management of Construction Projects](#)

[Resource Management for Construction](#)

[An Owner's Guide to Successful Projects](#)

[Fundamental Concepts for Owners, Engineers, Architects,
and Builders](#)

[Location-Based Management for Construction](#)

[Construction Program Management](#)

[Operations Management for Construction](#)

[Managing construction information](#)

[Management for the Construction Industry](#)

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The one thing that all well-run, profitable construction projects have in common is that they benefit from good project managers. People who have the skills to plan the project, manage it and keep it on track whenever tight timescales, costs, people or other difficulties threaten to derail it. The good news is that there is no secret art to project management. These are the skills that any manager can learn

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and use. Project Management in Construction is a practical, easy-to-read guide to defining, organizing, planning, and executing a construction project so that it is completed to the satisfaction of the principal stakeholders. The book is part of the Leading Construction Series co-published by Gower and CITB-ConstructionSkills. The Leading Construction Series is part of a CITB-ConstructionSkills initiative to

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develop management skills within the industry. The books in this series are designed to be essentially practical, with a firm grounding in the construction industry.

'A comprehensive selection of those aspects of management theory which could have some relevance to main contracting.' - Mark Callender, Building Employers' Confederation, The Business Economist This book is the first to bring together those aspects

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of modern theories of economics and management which are of particular relevance to the strategic behaviour of major contracting firms and it does so in a way which is easily understood by the non-specialist reader. It analyses the different behaviour of contracting firms which is due to the special characteristics of the construction industry.

This is a comprehensive book on infrastructure development and

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construction management. It is written keeping in mind the curricula of construction management programmes in India and abroad. It covers infrastructure development, the construction industry in India, financial analysis of the real estate industry in India, economic analysis of projects, tendering and bidding, contracts and contract management, FIDIC conditions of contract, construction disputes and claims,

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arbitration, conciliation and dispute resolution, international construction project exports and identifying, analysing and managing construction project risk. Thus, this book covers most of the construction management activities that are carried out at different stages of a construction project. This is an essential book for students of construction management, construction professionals, academicians and researchers.

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The role of the project manager continues to evolve, presenting new challenges to established practitioners and those entering the field for the first time. This second edition of Peter Fewings' groundbreaking textbook has been thoroughly revised to recognise the increasing importance of sustainability and lean construction in the construction industry. It also tackles the significance of design management, changing health and safety

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regulation, leadership and quality for continuous improvement of the service and the product. Using an integrated project management approach, emphasis is placed on the importance of effectively handling external factors in order to best achieve an on-schedule, on-budget result, as well as good negotiation with clients and skilled team leadership. Its holistic approach provides readers with a thorough guide in how to increase

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efficiency and communication at all stages while reducing costs, time and risk. Short case studies are used throughout the book to illustrate different tools and techniques.

Combining the theories underpinning best practice in construction project management, with a wealth of practical examples, this book is uniquely valuable for practitioners and clients as well as undergraduate and graduate students for construction project

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management.
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Proper cost accounting and financial management are essential elements of any successful construction job, and therefore make up essential skills for construction project managers and project engineers. Many textbooks on the market focus on the theoretical principles of accounting and finance required for head office staff like the chief financial officer (CFO) of a construction firm. This book's unique

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practical approach focuses on the activities of the construction management team, including the project manager, superintendent, project engineer, and jobsite cost engineers and cost accountants. In short, this book provides a seamless connection between cost accounting and construction project management from the construction management practitioner's perspective. Following a complete accounting cycle, from the

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original estimate through cost controls to financial close-out, the book makes use of one commercial construction project case study throughout. It covers key topics like financial statements, ratios, cost control, earned value, equipment depreciation, cash flow, and pay requests. But unlike other texts, this book also covers additional financial responsibilities such as cost estimates, change orders, and project close-out. Also included

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are more advanced accounting and financial topics such as supply chain management, activity-based accounting, lean construction techniques, taxes, and the developer's pro forma. Each chapter contains review questions and applied exercises and the book is supplemented with an eResource with instructor manual, estimates and schedules, further cases and figures from the book. This textbook is ideal for use in all cost accounting and

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financial management classes on both undergraduate and graduate level construction management or construction engineering programs.

Value Management is a philosophy, set of principles and a structured management methodology for improving organisational decision-making and value-for-money. The second edition builds on the success of the first edition by extending the integrated value philosophy, methodology and tool

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kit to describe the application of Value Management to the areas of service delivery, asset management, and, Programmes, in addition to Projects, products and processes. Value Management is a well-established methodology in the international construction industry, and in the UK has been endorsed as good practice in a range of government sponsored reports. In this book the authors have addressed the practical opportunities and

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difficulties of Value Management by
synthesising the background,
international developments,
benchmarking and their own extensive
consultancy and action research
experience in Value Management to
provide a comprehensive package of
theory and practice. The second edition
retains the structure of the first
edition, covering methods and
practices, frameworks of value and the
future of value management. It has been

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thoroughly updated, and a number of new chapters added to encapsulate further extensions to current theory and practice. In particular, the new edition responds to: A range of recent UK industry and government publications; and most notably BS EN 16271:2012 - Value management: Functional expression of the need and functional performance specification; the imminent update of BS EN 12973:2000 Value Management; BS EN 1325 Value

Management - Vocabulary, Terms and definitions; the changes to "Value for Europe" governing the training and certification of Value Management in European Union countries; the UK Government's Management of Value (MoV) initiative, together with other leading reports, international guidance and standards on Value Management. Research in Value Management undertaken since publication of the first edition. Changes in Value Management practice

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particularly in Programmes and
Projects. Developments in the theory of
value, principally value for money
measures, whole life value option
appraisal, and benefits realisation.
Initiatives in asset management
initiatives covering the management of
physical infrastructure, for example
the recent launch of a suite of three
standards under the generic title of BS
ISO 55000: 2014 Asset Management, and
its predecessor BSI PAS55 2008 "Asset

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Management: Specification For The
Optimized Management Of Physical
Assets" The second edition contains a
dedicated chapter of exemplar case
studies drawn from the authors'
experience, selected to demonstrate the
new areas of theory and practice. An
Appendix includes an extensive set of
tools and techniques of use in Value
Management practice. Construction
clients, including those in both the
public and private sectors, and

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professionals such as construction cost
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consultants, quantity surveyors,

architects, asset managers,

construction engineers, and

construction managers will all find

Value Management of Construction

Projects to be essential reading. It

will also be of interest to researchers

and students on construction related

courses in Higher Education -

particularly those at final year

undergraduate and at Masters level.

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Filled with practical advice for all aspects of the construction manager's role, this invaluable book fills a need for training in this essential subject, to ensure greater efficiency on site and smoother client-contractor relations. Developed as a handy-reference guide for practitioners and also useful for students, it covers the broad range of responsibilities associated with the role, providing clear guidance and in-depth coverage of

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the essentials. Topics include financial responsibilities and how to handle them, tender preparation, people management, health and safety, contracts, subcontracting, measurement and quantities, insurance and risk and many more simple and effective methods for turning construction projects into reality.

Written from the perspective of the general contractor's project manager, this comprehensive construction project

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management reference illustrates the team approach to project management that is prevalent in private sector construction. Using a single commercial construction project to illustrate concepts, the authors' present topics in the sequence the project manager would address them. The focus is on the individual management processes and techniques and tools needed to manage a project. The authors address all aspects of construction from contracts,

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selecting a project, cost estimating,
planning and scheduling, contract
development, partnering and team
building, subcontracting and material
management to project start-up,
document and record keeping,
communications, field questions,
submittals, quality and safety
management, contract change orders,
claims and disputes, warranty
management and advanced topics in
project management. For construction

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contractors and those interested in
construction management.

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Construction](#)

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[Practical Construction Management](#)

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Handbook of Construction Management
Environmental Management in
Construction

A Constructor's Perspective

The management of construction projects continues to be problematic as the complexity of projects themselves and the environments in which they are constructed increasingly challenge project organisations to deliver effective projects within cost and time constraints. Appropriately structured organisations are essential for the delivery of effective projects, the design of which requires an in-depth

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knowledge of the organisation theory applied to the definition, design and construction of projects. This book adopts an essentially systems approach to organisation analysis and design from the initial concept of the project. It enriches this approach by incorporating both other relevant organisation theory and transaction cost economics. It is concerned particularly with the integration of the contributors to the process and the way in which decisions are made. The fourth edition extends considerably the application of transaction cost economics to project management to explain how construction project

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organisations are formed. It incorporates the partnering phenomenon which is also explained using transaction cost economics. Organisation culture is included as a complement to other organisation theory and in addition contributes to the explanation of partnering. The book has been updated generally in terms of both organisation theory and advances in the project management field itself and the references have been considerably expanded.

The first edition published in 2010. The response was encouraging and many people appreciated a book that was dedicated to quality management in construction

projects. Since it published, ISO 9000: 2008 has been revised and ISO 9000: 2015 has published. The new edition will focus on risk-based thinking which must be considered from the beginning and throughout the project life cycle. There are quality-related topics such as Customer Relationship, Supplier Management, Risk Management, Quality Audits, Tools for Construction Projects, and Quality Management that were not covered in the first edition. Furthermore, some figures and tables needed to be updated to make the book more comprehensive.

Although construction is one of the largest industries

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in the United States, it lags behind other industries in its implementation of modern management techniques such as those contained in the Standard for Program Management (the Standard) by the Project Management Institute (PMI®). Construction Program Management details the successful use of the PMI® approach for the construction of capital programs. It demonstrates, through case studies, how implementation of PMI's set of tools and techniques can improve the chances of program success. Exploring tactical and strategic management methods, the book outlines a structured, process-based

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approach to construction program management that leverages structure to bring order to what can otherwise feel like an overwhelming challenge. The opening chapter focuses on basic definitions of project management and program management—highlighting their similarities and differences. A summary review of the Standard describes how these management concepts can be applied to capital construction programs. Explains how to apply the principles of PMI®’s Standard for Program Management to construction programs Describes the difference between leadership (strategic) and management

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(tactical) skills Compares and contrasts the program management principles included in the PMI® Body of Knowledge with those of the Construction Management Association of America (CMAA®) Through the use of case studies this book provides students, practitioners, and stakeholders with a guided tour through each phase of the program management life cycle. Using language that is easy to understand, the book shows that with the right team, the right leader, and the proper implementation of the steps outlined, all programs can obtain true success. Management for the Construction Industry introduces

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the principles of management and applies them to the construction industry. It covers the level 2 module of the CIOB's Education Framework on management and is officially sanctioned by the CIOB as the recognised text for that module. The text builds on the knowledge of basic disciplines, such as technology, economics and law, and forms the basis for more advanced studies in specialist aspects of management. The main context of the book is the construction industry but emphasis is also given throughout to transferable skills in the study of management. This book is a core text for the CIOB level 2 module on

management, as well as BTEC HNC/D building studies and degree courses in building, construction management and surveying.

With extensive case studies for illustration, this is a practitioner's guide to an entirely new production system for construction management using flowline scheduling. Covering the entire process of presenting a comprehensive management system – from design, through measurement, scheduling, and visualization and control – its emphasis is on reducing cost and increasing quality. Drawing its components together into a management system, the authors not only

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include theory and explanations of how and why it works, but also examine and present a suite of methods for successful project implementation.

Perfect as a how-to guide for researchers and advanced construction students to discover the simple application of the new techniques, and invaluable for acquiring the practical tools for planning and controlling projects.

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