

Online Library
Cost Management
Of Construction
Projects

Cost Management Of Cons truction Projects

The financing of modern construction projects reflects the need to address the

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costs and benefits of the whole life of the project. This means that end of life economics can now have a far greater impact on the planning and feasibility phases. During the project itself, decisions on construction materials and

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processes all influence the schedule as well as both immediate and down-the-line costs. Massimo Pica and his co-authors explain in detail the fundamentals of project life cycle economics and how they apply in the context of complex

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modern

construction. This is an essential guide for those involved in construction project design, tendering and contracting; to help ensure the sustainability of the project or their contribution to it, from the start. It is also important for

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those involved in the delivery of the project to help them make the choices to keep the project on a financial even keel. Government, corporations and other organizations are looking for new models of collaborative working to fund their

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large construction and infrastructure projects in the face of changing attitudes to risk; a better educated and more demanding base of end-user clients and the increasing requirements for projects that are environmentally

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responsible and
sustainable. Project
Life Cycle

Economics is a
fundamental primer
for those
commissioning and
those delivering
construction.

Aging school
facilities, population
growth, new
learning

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approaches, and technology are among the factors behind school construction projects, whether additions, renovations, or entirely new buildings. School building committees and administrators must work effectively with

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design professionals and the general contractor to ensure that their projects meet the school's needs within budget and on schedule. It is crucial that these three project team members understand the steps involved in the project and one

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another's roles and requirements, as they work together to achieve a favorable end result. The authors of the book -- architects, construction project managers, contractor, and estimators who specialize in school construction --

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provide start-to-finish, expert guidance on the process, from early planning and design through construction and the move into the new facility.

The most comprehensive, up-to-date construction project management system Fully revised

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Projects

for the latest technologies and standards, Total Construction Project Management, Second Edition provides a proven framework for completing construction jobs as specified, on schedule, and within budget. You'll learn

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how to plan, organize, and control each stage of a project—from initiation to close-out. This updated edition integrates important new trends, such as technological interoperability, seamless electronic information

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exchange, Building Information Modeling (BIM), and sustainable building practices. Real-world case studies and customizable sample construction documents are included in this practical guide. Inside, you'll find field-tested methods

Online Library
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for: Preparing
project bids and
proposals
Negotiating
contracts Project
planning and
initiation Scheduling
construction
Estimating,
budgeting and cost
control Project
organization and
control Construction

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project execution
Integrating the latest
technologies,
including BIM and
electronic
information
exchange Green
building and
sustainable
construction
Construction safety
and health Project
communications

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Managing human factors

The cost manager/quantity surveyor plays a pivotal role in the financial and contract management of construction projects, although the exact nature of the service they

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provide depends on the project employer's terms of engagement. This can mean acting as consultant in a range of roles including cost and advisory services for budget setting to initiate a project, cost management through the design

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and construction phases, contract administration and acting as the client side project manager to oversee the entire building process. Cost Management of Construction Projects focusses on the cost manager/quantity

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surveyor engaged by the project client, and discusses key elements that help drive project success including measurement (based on the New Rules of Measurement published by RICS), procurement, cost planning, contract

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administration and project cost management. With examples, it provides a thorough guide to the role in the workplace and in the field, directly addressing the day to day situations faced by the cost manager/quantity surveyor. Donald

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Towey MRICS has extensive experience of the construction industry. His experience began as an estimator with a glass/glazing contractor in Manchester. Following a number of positions with UK contractors he

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relocated to Australia and has worked with a number of developers and main contractors, as well as doing freelance work. He is currently working in contracts management in Sydney.

Integrated Cost

Online Library
Cost Management
Of Construction
Projects

Management
System for
Delivering
Construction
Projects
Construction
Scheduling, Cost
Optimization and
Management
Tools for Managing
Project Costs
Cost and Value
Management in

Online Library
Cost Management
Of Construction
Projects

Cost Accounting
and Financial
Management for
Construction Project
Managers

A majority of large-scale construction and major infrastructure projects are funded by public funds from taxpayers.

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However, these projects are often subject to severe delays and cost overruns. Large-Scale Construction Project Management: Understanding Legal and Contract Requirements introduces integrated

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approaches to project management and control mechanisms to effectively manage large-scale construction projects. It explains the contractual requirements and associated legal principles under the

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latest edition of the leading standard forms of contracts, including FIDIC 2017, NEC4, and JCT 2016. It explains integrated project governance regarding time, cost, risk, change, contract management, and more. Further, it

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discusses the legal issues of scheduling delays and disruptions regarding the Delay and Disruption Protocol (Society of Construction Law) as well as Forensic Schedule Analysis guidance (American Association of Cost Engineering).

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Features: Provides strategies to effectively resolve disputes during construction projects Examines Quantitative Schedule Risk Analysis (QSRA) and Quantitative Cost Risk Analysis (QCRA) Introduces the most recent

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software and techniques used in managing large-scale construction projects This book serves as a useful resource for project control and management professionals, researchers in construction management and

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project management, and students in building construction management and project management.

Written by a cost-control expert with more than thirty years of design and building expertise, this volume in the

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Projects

Professional
Practice Essentials
Series gives you
practical, user-
friendly guidance
on how to better
manage costs
through all phases
of a project.
Dell'Isola first
explains the basics
of cost
management-from

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estimating costs during the design phase to managing costs during construction and even after occupancy. He then covers all of the tools and techniques available to architects/designers and explains how

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best to use them. A number of useful case studies clearly show how the author's principles work in real-life situations.

PMBOK® Guide is the go-to resource for project management practitioners. The project

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management profession has significantly evolved due to emerging technology, new approaches and rapid market changes. Reflecting this evolution, The Standard for Project Management enumerates 12

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principles of project management and the PMBOK® Guide &– Seventh Edition is structured around eight project performance domains. This edition is designed to address practitioners' current and future

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needs and to help them be more proactive, innovative and nimble in enabling desired project outcomes. This edition of the PMBOK® Guide:•Reflects the full range of development approaches

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(predictive, adaptive, hybrid, etc.);•Provides an entire section devoted to tailoring the development approach and processes;•Includes an expanded list of models, methods, and artifacts;•Focuses on not just

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delivering project
outputs but also
enabling outcomes;
and• Integrates
with

PMIstandards+™
for information and
standards
application content
based on project
type, development
approach, and
industry sector.

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The landmark project management reference, now in a new edition Now in a Tenth Edition, this industry-leading project management "bible" aligns its streamlined approach to the latest release of the

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Project

Management

Institute's Project

Management Body

of Knowledge

(PMI®'s PMBOK®

Guide), the new

mandatory source

of training for the

Project

Management

Professional

(PMP®) Certificat-

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ion Exam. This outstanding edition gives students and professionals a profound understanding of project management with insights from one of the best-known and respected authorities on the subject. From the

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intricate framework
of organizational
behavior and
structure that can
determine project
success to the
planning,
scheduling, and
controlling
processes vital to
effective project
management, the
new edition

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thoroughly covers every key component of the subject. This Tenth Edition features: New sections on scope changes, exiting a project, collective belief, and managing virtual teams More than twenty-five case studies,

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including a new
case on the Iridium
Project covering all
aspects of project
management 400
discussion
questions More
than 125 multiple-
choice questions
(PMI, PMBOK, PMP,
and Project
Management
Professional are

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Of Construction

registered marks of
the Project

Management
Institute, Inc.)

Large-Scale
Construction
Project

Management
Total Construction
Project

Management,
Second Edition
Management of

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Of Construction
Projects

Construction
Project
Management in
Construction
Design,
Construction
Management, Cost
Control

A comprehensive
treatment of the
fundamental
concepts,

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methods and applications of cost control for a variety of construction project sizes and contract types. Begins with the preconstruction phase and continues through the construction and

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commissioning phases. Provides a detailed explanation of a cost plan and principles relating to conventional and CPM-based computerized control of progress, manhours, materials,

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equipment,
subcontract
costs, indirect
costs and change
orders. Treats
the latest
advances with
network-based
methods and
computers,
claims, cash
flow forecasts
and trends.
Includes flow

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charts, tables,
reports,
glossary,
bibliography,
and an appendix
that illustrates
estimating and
cost breakdown
structure.

Using a
combination of
worked examples
and case
studies, this

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book examines how projects go over-cost, what lessons can be learned from past examples and what approaches have successfully been employed. Example case studies include:
The Scottish Parliament

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Wembley Stadium
Heathrow

Terminal 5. If
you're studying
Surveying or
Construction
Management, or
starting out as
a Construction
Cost Manager and
need to plan or
assess
construction
projects then

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this is the book
for you.

Cost management
is an important
stage in
construction
project life
cycle,
construction
projects need
cost management
in the first
stage to finish
the project

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within required cost, time and quality, it's considered as the most factors affecting in the success of construction projects in all developing and developed countries. Many researchers focused to

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studying the factors affected in cost performance in construction projects in different countries, because cost is an important attribute in construction projects. The project

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considered as success project when it finished within limited cost and time with required quality, the three items (cost, time and quality) depend on each other, any change in one of them affects the

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other, whether the effect was positive or negative, the main item of them is cost, so this encourage many researchers to study the factors affected in cost management. This research is carried out to

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highlight the information on the factors that affected in cost management during the life cycle on construction project, the data collected through 41 reviews focused in studying factors affected

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in cost performance of construction project. In this research it is to be found different factors in different countries and different projects, the most important factors found

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through
literature

review are:

design changes,
poor management
in the site,
delay in
progress payment
by owner,
fluctuation in
material price.

In this updated
and expanded
second edition,

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Projects

Keith Potts and
Nii Ankrah

examine key
issues in
construction
cost management
across the
building and
civil
engineering
sectors, both in
the UK and
overseas. Best
practice from

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pre-contract to
post-contract
phases of the
project life-
cycle are
illustrated
using major
projects such as
Heathrow
Terminal 5,
Crossrail and
the London 2012
Olympics as case
studies. More

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worked examples, legal cases, case studies and current research have been introduced to cover every aspect of the cost manager's role. Whole-life costing, value management, and risk management are also

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addressed, and
self-test
questions at the
end of each
chapter support
independent
learning. This
comprehensive
book is
essential
reading for
students on
surveying and
construction

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management programmes, as well as built environment practitioners with cost or project management responsibilities.

Integrated
Design and Cost
Management for
Civil Engineers
The Engineer's

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Cost Handbook

Advanced

Construction

Project

Management

Understanding

Legal and

Contract

Requirements

Factors

Effecting the

Cost Management

in Construction

Projects

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Projects

Improve the
accuracy of
project
estimates and
make better in-
progress
modifications
by following
the discipline-
independent
approach
mapped out in

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this book.

Learn the best
ways to apply
new tools,
including a
breakdown
structure for
both work and
resources and
proven
estimating
models. In

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addition,
you'll gain
insights into
best practices
for progress
monitoring and
cost
management, as
well as for
dealing
effectively
with external

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projects.

The book is
developed to
provide
significant
information
and guidelines
to
construction
and project
management
professionals

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(owners,
designers,
consultants,
construction
managers,
project
managers,
supervisors,
contractors,
builders,
developers,
and many

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others from
the constructi
on-related
industry)
involved in
construction
projects
(mainly civil
construction
projects,
commercial-A/E
projects) and

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construction-
Projects
related

industries. It covers the importance of construction management principles, procedures, concepts, methods, and tools, and

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their applications to various activities/components/subsystems of different phases of the life cycle of a construction project. These applications will improve

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the
Projects

construction
process in
order to
conveniently
manage the
project and
make the
project most
qualitative,
competitive,
and

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economical. It
also discuss
the
interaction
and/or
combination
among some of
the activities
/elements of
management
functions,
management

Online Library
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Of Construction
processes, and
their

effective
implementation
and
applications
that are
essential
throughout the
life cycle of
project to
conveniently

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manage the
project. This
handbook will:

Focus on the
construction
management

system to
manage

construction
projects

Include a
number of

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figures and
tables which
will enhance
reader
comprehension
Provide all
related
topics/areas
of
construction
management Be
of interest to

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Projects

all those
involved in
construction
management and
project
management
Provide
information
about Building
Information
Modeling
(BIM), and ISO

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Certification
Projects
in

Construction
Industry Offer
a chapter on
Lean
construction
The
construction
project life
cycle phases
and its activi

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ties/elements/
subsystems are
comprehensivel
y developed
and take into
consideration
Henri Fayol's
Management
Function
concept which
was
subsequently

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modified by

Koontz and

O'Donnel and

Management

Processes

Knowledge

Areas

described in

PMBOK®

published by

Project

Management

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Of Construction
Institute
Projects

(PMI). The information available in the book will also prove valuable for academics/instructors to provide construction management/proj

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Project management
Projects

students with
in-depth
knowledge and
guidelines
followed in
the
construction
projects and
familiarize
them with
construction

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Of Construction
management
Practices
practices.

Cost

Management of
Construction
Projects John
Wiley & Sons

Aiming to
bridge the gap
between the
quantitative
viewpoint of

Online Library
Cost Management
Of Construction
management
Projects
science and
the practical,
day-to-day
needs of
project cost
management,
this text
offers
coverage of an
integrated
cost

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management
Projects

programme. It
presents the
use of method
study
techniques to
increase the
effectiveness
of procedures
and improve
the
productivity

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Cost Management
Of Construction
Projects

of resources,
emphasizing a
systematic
approach to
cost control.
Successful
Construction
Cost Control
A Systems
Approach to
Planning,
Scheduling,

Online Library
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Of Construction
and
Projects

Controlling
Project

Management

& Leadership

Skills for

Engineering &

Construction

Projects

Green

Construction

Project

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**Management and
Cost Oversight
Construction
Cost**

Management

*An essential
guide to the
structure,
dynamics, and
management of
construction
megaprojects*

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Projects

*Advanced
Construction
Project
Management is a
comprehensive
resource that
covers the myriad
aspects of
implementing a
megaproject from
a contractor's
perspective. With
many years'*

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*experience of
managing
construction
megaprojects, the
author provides
an in-depth
exploration of the
structure,
dynamics and
management of
these demanding
projects. In
addition, the book*

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gives all stakeholders a clear understanding of the complexity of megaprojects and offers contractors the insight and essential tools needed for achieving results. As the trend to plan and

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Projects

implement ever-larger projects looks likely to continue into the future, the need for a guide to understand the challenges of managing a megaproject couldn't be greater.

Comprehensive in

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scope, the book explores the theoretical background, economics, complexity, phases, strategic planning, engineering, coordination, and common challenges of megaprojects.

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The book also provides the tools for managing stakeholder integration. This important book: Describes the structure, dynamics and management of megaprojects Explores the management

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*activities required
and examines the
appropriate tools
for the
management of
megaprojects
Includes tools for
stakeholder
integration
Provides an
advanced
understanding of
construction*

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*management
concepts Written
for managers,
project managers
and engineers,
and cost
consultants,
Advanced
Construction
Project
Management
covers, in one
complete volume,*

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Cost Management
Of Construction
Projects

*the information
needed to lead a
successful
project.*

*A comprehensive
book on project
management,
covering all
principles and
methods with
fully worked
examples, this
book includes*

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both hard and soft skills for the engineering, manufacturing and construction industries. Ideal for engineering project managers considering obtaining a Project Management Professional

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(PMP)

*qualification, this
book covers in
theory and
practice, the
complete body of
knowledge for
both the Project
Management
Institute (PMI)
and the
Association of
Project*

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*Management
(APM). Fully
aligned with the
latest 2005
updates to the
exam syllabi,
complete with
online sample
Q&A, and
updated to
include the latest
revision of BS
6079 (British*

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Of Construction
Standards
Projects
Institute Guide to

*Project
Management in
the Construction
Industry), this
book is a
complete and
valuable
reference for
anyone serious
about project
management.*

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â€¢ The complete
body of
knowledge for
project
management
professionals in
the engineering,
manufacturing
and construction
sectors

â€¢ Covers all
hard and soft
topics in both

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*theory and
practice for the
newly revised
PMP and APMP
qualification
exams, along
with the latest
revision of BS
6079 standard on
project
management in
the construction
industry*

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Projects

*â€¢ Written by a
qualified PMP
exam accreditor
and accompanied
by online Q&A
resources for self-
testing*

*As with all
previous editions
of Project
Management in
Construction, this
sixth edition*

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focuses on systems theory as the approach suitable for organizing and managing people skilled in the design and completion of construction projects. It discusses the many competing

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*paradigms and
alternative
perspectives
available, for
example in
relation to
differentiation
and integration,
as well as the
emerging study
of temporary
organizations and
its relevance to*

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Projects

*construction
project
management.*

*Whilst
encompassing
the need to
develop further
theoretical
aspects of
construction
project
organization
theory, this*

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Projects

edition has also enhanced the application of organization studies to practical issues of construction project management. More emphasis has been placed on the added complexity of

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Projects

*construction
project
management by
issues
surrounding
clients and
stakeholders, and
the control and
empowerment of
project
participants.
Additional focus
has been placed*

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*on sustainability
issues as they
impinge on
construction
project
management, on
reworked views
on supply chain
management and
on developments
in partnering,
together with
clarification of the*

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shifting terms and definitions relating to construction organization structures and their uses.

Offers coverage of each important step in engineering cost control process, from project

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justification to life-cycle costs. The book describes cost control systems and shows how to apply the principles of value engineering. It explains estimating methodology and

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*the estimation of
engineering,
engineering
equipment, and
construction and
labour costs*

*Cost Management
of Capital Projects
Integrating Cost
and Schedule in
Construction
Project Control
Cost Estimation,*

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Of Construction
Projects

*Management and
Effectiveness in
Construction
Projects
Building and
Renovating
Schools*

Construction
Scheduling, Cost
Optimization and
Management presents
a general
mathematical

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formula for the scheduling of construction projects. Using this formula, repetitive and non-repetitive tasks, work continuity considerations, multiple-crew strategies, and the effects of varying job conditions on the performance of a

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crew can be modelled. This book presents an entirely new approach to the construction scheduling problem. It provides a practical methodology which will be of great benefit to all those involved in construction scheduling and cost

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optimization,
including
construction
engineers, highway
engineers,
transportation
engineers,
contractors and
architects. It will also
be useful for
researchers, and
graduates on courses
in construction

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scheduling and
planning.

The design and construction of building projects is a complex and demanding process. It involves a variety of disciplines, including architecture, quantity surveying, engineering and construction

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management. The common objective is to deliver, on behalf of clients commissioning construction work, buildings of the right quality at the right price and within the right time-scale. This introductory textbook explains the development,

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application and pivotal role of design cost management from inception through to completion of a project, and considers its context and relevance within current construction procurement arrangements, including design and

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build. The text discusses the need for improvements in communication between all those involved in the process, and outlines how to achieve better information management, underpinned by information technology, to help

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overcome the criticisms of the industry for too often delivering projects late, over budget and of poor quality.

Building Design Cost Management will benefit all those involved in the design and construction of buildings - in particular students of

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architecture, quantity
surveying and
construction
management, as it:
· takes an innovative
approach to explain
the process of design
cost management,
using a practical case
study to demonstrate
its application,
supported by a
dedicated website

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Of Construction
Projects

(www.bdcmm.co.uk) .

includes on the website selective information from the nationally available Building Cost Information Service, to give students a dynamic modelling tool to examine and carry out design cost management

Cost and Value

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Projects

Management in Projects provides practicing managers with a thorough understanding of the various dimensions of cost and value in projects, along with the factors that impact them, and the managerial approaches that would be most

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Of Construction
Projects

effective for achieving cost efficiency and value optimization. This book addresses cost from a strategic perspective, offering thorough coverage of the various elements of value management such as value planning, value engineering and

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Projects

value analysis from the perspective of projects.

This book examines a range of aspects concerning cost control, from financial feasibility studies, through the design, to cost control of the work on site. It considers all of these from the viewpoint of

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both owner/developer and contractor. The new edition has been updated to include a new chapter on financial control, and further material on data collection, site costing and cost control. Additional examples have also been added.

Learning from Case

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Of Construction
Studies
Projects

Architect's Essentials
of Cost Management
Building Design Cost
Management
Scope, Schedule, and
Cost Control
Construction Project
Management
The key to
successful project
control is the
fusing of cost to

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schedule whereby
the management
of one helps to
manage the other.

Project Control:
Integrating Cost
and Schedule in
Construction
explores the
reasons behind
and the
methodologies for
proper planning,

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monitoring, and controlling both project costs and schedule. Filling a current void the topic of project control applied to the construction industry, it is essential reading for students and professionals alike.

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This brand-new book provides a thorough introduction to cost estimating in a self-contained print and online package. With clear explanations and a hands-on, example-driven approach, it is the ideal reference

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for students and new professionals who need to learn how to perform cost estimating for building construction. With more than 930 Location Factors in the United States and Canada, the data includes up-to-date system

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prices for more than 100 standard assemblies and in-place costs for thousands of alternates making it easy to customize budget estimates and compare system costs. The book includes a free access code

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to the supplemental website with plans, specifications, problem sets, and a full sample estimate.

The book is developed to provide significant information and guidelines to construction and

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project
management
professionals
(owners,
designers,
consultants,
construction
managers, project
managers,
supervisors,
contractors,
builders,
developers, and

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many others from the construction-related industry) involved in construction projects (mainly civil construction projects, commercial-A/E projects) and construction-related industries. It covers the

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importance of
construction
management
principles,
procedures,
concepts,
methods, and
tools, and their
applications to
various activities/c
omponents/subsys
tems of different
phases of the life

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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

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economical. It also discuss the interaction and/or combination among some of the activities/elements of management functions, management processes, and their effective implementation

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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

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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

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management and
project

management

Provide

information about

Building

Information

Modeling (BIM),

and ISO

Certification in

Construction

Industry Offer a

chapter on Lean

Online Library

Cost Management Of Construction Projects

construction The
construction
project life cycle
phases and its acti
vities/elements/su
bsystems are
comprehensively
developed and
take into
consideration
Henri Fayol's
Management
Function concept

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which was subsequently modified by Koontz and O'Don Project management is the key to any engineering and construction project's success. Now you can learn from the experts real-world tested

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strategies you can use to lead your projects to on-time, within budget, high quality success stories. Specifics of scheduling, cost estimating and leadership skills are fully detailed. The authors will show you how to

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organize your project from the very beginning to achieve success. You'll also learn to use win-win negotiation skills during each stage of your project. Real world examples will facilitate your understanding of

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how to apply every aspect of the material presented in the text. Loaded with forms, checklists and case studies, this invaluable reference is a must for everyone involved with engineering and construction

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projects.

Industrial Project
Management
International
Standards and
Best Practices for
Engineering and
Construction
Contracting
A Practical Guide
to Field
Construction
Management

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Project
Management,
Planning and
Control

Project
Management for
Construction

**Proper cost
accounting and
financial
management are
essential
elements of any**

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Of Construction
Projects

**successful
construction
job, and
therefore make
up essential
skills for
construction
project
managers and
project
engineers. Many
textbooks on
the market**

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**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**

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**book's unique
practical
approach
focuses on the
activities of
the
construction
management
team, including
the project
manager,
superintendent,
project**

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**engineer, and
jobsite cost
engineers and
cost
accountants. In
short, this
book provides a
seamless
connection
between cost
accounting and
construction
project**

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Of Construction
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**management from
the**

**construction
management
practitioner's
perspective.
Following a
complete
accounting
cycle, from the
original
estimate
through cost**

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Of Construction
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**controls to
financial close-
out, the book
makes use of
one commercial
construction
project case
study
throughout. It
covers key
topics like
financial
statements,**

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ratios, cost control, earned value, equipment depreciation, cash flow, and pay requests. But unlike other texts, this book also covers additional financial respo

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**nsibilities
such as cost
estimates,
change orders,
and project
close-out. Also
included are
more advanced
accounting and
financial
topics such as
supply chain
management,**

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**activity-based
accounting,
lean
construction
techniques,
taxes, and the
developer's pro
forma. Each
chapter
contains review
questions and
applied
exercises and**

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**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**

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**use in all cost
accounting and
financial
management
classes on both
undergraduate
and graduate
level
construction
management or
construction
engineering
programs.**

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**This book is
designed to
help
practitioners
and students in
a wide range of
construction
project
management
professions to
understand what
building
information**

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**modelling (BIM)
and big data
could mean for
them and how
they should
prepare to work
successfully on
BIM-compliant
projects and
maintain their
competencies in
this essential
and expanding**

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**area. In this
book, the state-
of-the-art
information
technologies
that support
high-profile
BIM
implementation
are introduced,
and case
studies show
how BIM has**

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**integrated core
quantity
surveying and
cost management
responsibilitie
s and how big
data can enable
informed
decision-making
for cost
control and
cost planning.
The authors'**

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combined professional and academic experience demonstrates, with practical examples, the importance of using BIM and particularly the fusion of BIM and big data, to

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**sharpen
competitiveness
in global and
domestic
markets. This
book is a
highly valuable
guide for
people in a
wide range of
construction
project
management and**

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**quantity
surveying
roles. In
addition,
implications
for project
management,
facilities
management,
contract
administration,
and dispute
resolution are**

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**also explored
through the
case studies,
making this
book essential
reading for
built
environment and
engineering
professionals.
Find Practical
Solutions to
Civil**

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**Engineering
Design and Cost
Management
Problems A
guide to
successfully
designing,
estimating, and
scheduling a
civil
engineering
project,
Integrated**

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**Design and Cost
Management for
Civil Engineers
shows how
practicing
professionals
can design fit-
for-use
solutions
within
established
time frames and
reliable**

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budgets. This text combines technical compliance with practical solutions in relation to cost planning, estimating, time, and cost control. It incorporates solutions that

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**are technically
sound as well
as cost
effective and
time efficient.
It focuses on
the integration
of design and
construction
based on solid
engineering
foundations
contained**

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Projects

**within a code
of ethics, and
navigates
engineers
through the
complete
process of
project design,
pricing, and
tendering. Well
illustrated The
book uses cases
studies to**

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illustrate principles and processes. Although they center on Australasia and Southeast Asia, the principles are internationally relevant. The material details

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procedures that emphasize the correct quantification and planning of works, resulting in reliable cost and time predictions. It also works toward minimizing the

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**risk of losing
business
through cost
blowouts or
losing profits
through underes-
timation. This
Text Details
the Quest for
Practical
Solutions That:
Are cost
effective Can**

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Of Construction
Projects

**be completed
within a
reasonable
timeline
Conform to
relevant
quality
controls Are
framed within
appropriate
contract
documents
Satisfy ethical**

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**professional
procedures, and
Address the
client's brief
through a
structured
approach to
integrated
design and cost
management
Designed to
help civil
engineers**

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**develop and
apply a
multitude of
skill bases,
Integrated
Design and Cost
Management for
Civil Engineers
can aid them in
maintaining
relevancy in
appropriate
design**

Online Library
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**justifications,
guide work
tasks, control
costs, and
structure
project
timelines. The
book is an
ideal link
between a civil
engineering
course and
practice.**

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Management and administrative processes within the construction industry have been undergoing major changes in the last several decades. These changes have involved

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**significant
adjustments in
management
science and
management
techniques,
brought about
by the need for
contemporary
valid informa
tion with which
to manage the
construction**

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**process. In
short,
management in
the
construction
industry is
changing
significantly;
change will
continue at an
accelerated
pace at least
through the**

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next decade.

**The responses
required of
construction
industry
management are
now resulting
in a movement
away from an
entrepreneurial
management
style to
professional**

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management techniques and procedures. THE COMPELLING ECONOMIC ISSUES
The issues forcing these changes are economic. The rising costs of construction and of money are forcing the

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**buyers of
construction
services to be
more demanding.
Their demands
are for more
construction
economies, more
production,
and more
productivity
than at any
time in the**

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Projects

**past. Nowhere
has this been
more evident
than in the
Business
Roundtable on
construction
and in the
response of the
construction
industry to
it. To be
successfully**

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**responsive,
management in
the
construction
industry will
be required to
use the best
project
management
methods
available for
cost control,
schedule**

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**control, and
for financial
and accounting
controls. But
responsive
professional
management can
survive and
will flourish
within this
more demanding
eco nomic
environment.**

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**Project Life
Cycle Economics
Cost Management
of Construction
Projects
RSMeans Cost
Data, + Website
Project
Estimating and
Cost Management
Managing
Engineering,
Construction**

Online Library
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Projects

and

**Manufacturing
Projects to
PMI, APM and
BSI Standards**

*This volume
provides a guide to
managing all
aspects of a
construction
project. This is a
new edition of this
guide to the subject*

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which includes a new chapter devoted solely to the planning process and another on legal aspects of scheduling.

This book describes the principles and techniques in Project Management as applied to Engineering & Construction

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Contracts (ECC), conforming with relevant international standards (PMI - IPMA - ISO 21500), and pursuing a fully company-wide, process-based, multi-project approach. Uniquely, the book combines Project Management fundamentals with

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international contracting practices, which shape the planning, design and construction of large and complex works (such as plants, machinery, infrastructures and buildings) worldwide. The rigorous academic approach is mixed

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with the managerial contributions of Danieli, one of the world's top three suppliers of plants and equipment to the metals industry. The book has been updated to reflect the PMBOK 6th edition (September 2017), presents best practices in PM from around the globe,

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and addresses new trends in PM such as Agile, SCRUM, etc. Lastly, a dedicated section covers the professional use of the reference software Microsoft Project.

Unlike the majority of construction project management textbooks out there,

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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

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Projects

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

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***students through
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,***

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Of Construction
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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

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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 review of the roles of project

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

Green Construction is a specialized and skilled profession, and the author has extensive experience in this field. With this in

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mind, the reference is designed to provide practical guidelines and essential insights in preparing competent and professional looking ?Project Analysis Reports? and ?Project Status Reports?. The book also provides numerous tips on

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how to phrase the language of reports in a manner that is articulate and clearly understood by Real Estate Lenders and investors, as well as being an indispensable companion for both information and stimulus. Written in a conversational

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manner, this book will clarify the nuts and bolts of green construction, finance, and cost monitoring? as a profession, and will outline the many attributes required to being successful in this field.

Moreover, it will scrutinize the mechanics of

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organizing monthly meetings, contractor payment certifications, budgets, change orders, construction schedules, code compliance, waivers of lean, and much more. Drawing on over 30 years of personal experience across the world - both as an employee

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***and as an employer,
the reader will learn
how to plan and
implement sound
business strategies
and form alliances
in a global context.
The book also offers
important
information and
penetrating insights
into the process of
setting up and
working as a due-***

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***diligence
consultant. In a
clear, practical style,
it will be explained
how to identify
opportunities for
business
development and
how to maximize
return. It will also
articulate how to
meet new
challenges as well
as avoid many of the***

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pitfalls along the way. For the individual professional, this guide provides useful information and tips to help secure a high paying professional position. The book will include amongst other things, up-to-date information on hundreds of useful

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contacts. Topics covered in this guide include: types of services offered, the consultant's role on the construction loan team, what the lender needs to know, and marketing techniques. The guide will also include a comprehensive

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appendix that will contain numerous sample letters (e.g. for marketing and certification), building loan agreements, AIA forms, lender/consultant agreement, closeout documents and much more. Likewise included will be an extensive

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list of useful references from a variety of resources, and much more. Indeed, this handbook will be the most detailed & comprehensive program on the market. It meets all the criteria of a major work and will provide vital and absorbing reading.

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***Provides a detailed
blueprint of how to
conduct monthly
meetings,
investigations,
understand typical
client/consultant
agreements, analyze
contractor
requisitions
Includes sample
letters, reports,
forms and
agreements for easy***

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***reference. Practical
guidelines for
preparing Property
Analysis and
Property Status
Reports Includes a
glossary of
important terms,
abbreviations and
acronyms***

***Project Management
Integrated Cost and
Schedule Control for
Construction***

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***Handbook of
Construction
Management
Project Cost Control
in Construction***

A thoroughly
updated edition of
the classic guide to
project management
of construction
projects For more

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Projects

than thirty years,
Construction Project
Management has
been considered the
preeminent guide to
all aspects of the
construction project
management
process, including
the Critical Path
Method (CPM) of
project scheduling,
and much more.

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Now in its Sixth Edition, it continues to provide a solid foundation of the principles and fundamentals of project management, with a particular emphasis on project planning, demonstrated through an example project, along with

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new pedagogical elements such as end-of-chapter problems and questions and a full suite of instructor's resources. Also new to this edition is information on the Earned Value Analysis (EVA) system and introductory

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coverage of Building
Information

Modeling (BIM) and
Lean Construction
in the context of
project scheduling.
Readers will also
benefit from building
construction
examples, which
illustrate each of the
principles of project
management. This

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information,
combined with the
case studies
provided in the
appendix, gives
readers access to
hands-on project
management
experience in the
context of real-world
project management
problems. Features
two integrated

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example

projects—one civil
and one

commercial—fully
developed through
the text Includes

end-of-chapter
questions and

problems Details

BIM in scheduling
procedures, Lean
Construction, and

Earned Value

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Analysis, EVA

Provides teaching resources, including PowerPoint slides, interactive diagrams, and an Instructor's Manual with solutions for the end-of-chapter questions

Construction
Management and
Civil Engineering

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students and professionals alike will find everything they need, to understand and to master construction project management in this classic guide.

The Complexity of
Megaprojects
Fundamental
Concepts for
Owners, Engineers,

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Of Construction
Projects
Architects, and
Builders

A Guide to the
Project
Management Body
of Knowledge
(PMBOK® Guide) –
Seventh Edition and
The Standard for
Project
Management
(RUSSIAN)
A Constructor's

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Of Construction
Projects
Perspective
BIM and Big Data
for Construction
Cost Management