Construction Scheduling Principles And Practices
2nd Edition

This volume compiles the work coordinated by the Scheduling Excellence Initiative Committee (SEI) to improve standardization and provide best practice guidelines for scheduling processes in the construction industry. It serves as a guide for all schedulers and planners from entry level to senior schedulers, as well as non-schedulers in management roles.

The Practice Standard for Scheduling - Third Edition provides the latest thinking regarding good and accepted practices in the area of scheduling for a project. Aligned with the A Guide to the Project Management Body of Knowledge (PMBOK(R) Guide) - Sixth Edition, this updated practice standard expounds on the information contained in Section 6 on Project Schedule Management of the PMBOK(R) Guide. In this new edition of the practice standard, you will learn to identify the elements of a good schedule model, its purpose, use, and benefits. You will also discover what is required to produce and maintain a good schedule model. Also included in the Third Edition:

- Description of scheduling
- Definition of schedule model
- Uses and benefits of the schedule model
- Definitions of key terms and steps for scheduling
- Detailed descriptions of scheduling components
- Guidance on the principles and concepts of
The topic of this book is known as dynamic scheduling, and is used to refer to three dimensions of project management and scheduling: the construction of a baseline schedule and the analysis of a project schedule’s risk as preparation of the project control phase during project progress. This dynamic scheduling point of view implicitly assumes that the usability of a project’s baseline schedule is rather limited and only acts as a point of reference in the project life cycle. Consequently, a project schedule should especially be considered as nothing more than a predictive model that can be used for resource efficiency calculations, time and cost risk analyses, project tracking and performance measurement, and so on. In this book, the three dimensions of dynamic scheduling are highlighted in detail and are based on and inspired by a combination of academic research studies at Ghent University (www.ugent.be), in-company trainings at Vlerick Business School (www.vlerick.com) and consultancy
projects at OR-AS (www.or-as.be). First, the construction of a project baseline schedule is a central theme throughout the various chapters of the book, and is discussed from a complexity point of view with and without the presence of project resources. Second, the creation of an awareness of the weak parts in a baseline schedule is discussed at the end of the two baseline scheduling parts as schedule risk analysis techniques that can be applied on top of the baseline schedule. Third, the baseline schedule and its risk analyses can be used as guidelines during the project control step where actual deviations can be corrected within the margins of the project’s time and cost reserves. The second edition of this book has seen corrections, additions and amendments in detail throughout the book. Moreover Chapter 15 on "Dynamic Scheduling with ProTrack" has been completely rewritten and extended with a section on "ProTrack as a research tool".

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, as well as an instructor's manual including two additional new cases. Everything needed for a course in Estimating is provided in this proven text, which
combines coverage of principles with step-by-step procedures. Ideal for construction, architecture, and engineering students, it reflects the popular approach of tracing a complete project's progress. The use of computers as a key estimating tool is incorporated throughout.

Ensure successful construction projects through effective project scheduling and control. The success of a construction project is dependent on a schedule that is well-defined yet flexible to allow for inevitable delays or changes. Without an effective schedule, projects often run over budget and deadlines are missed which can jeopardize the success of the project. The updated Construction Project Scheduling and Control, Fourth Edition is a comprehensive guide that examines the analytical methods used to devise an efficient and successful schedule for construction projects of all sizes. This Fourth Edition describes the tools and methods that make projects run smoothly, with invaluable information from a noted career construction professional. Construction Project Scheduling and Control, Fourth Edition offers construction professionals a redefined Critical Path Method (CPM) and updated information on Building Information Modeling (BIM) and how it impacts project control. This Fourth Edition includes worked problems and scheduling software exercises that help students and practicing professionals apply critical thinking to issues in construction scheduling. This updated edition of Construction Project Scheduling and Control: • Includes a revised chapter on the Critical Path Method (CPM) and an all-new chapter on project scheduling and
control as viewed through the owner's perspective • Provides numerous worked problems and construction scheduling exercises • Includes an expanded glossary and list of acronyms • Offers updated instructor materials including PowerPoint lecture slides and an instructor's manual

Written for undergraduate and graduate students in construction management, civil engineering, and architecture, as well as practicing construction management professionals, Construction Project Scheduling and Control, Fourth Edition is updated to reflect the latest practices in the field.

An updated edition of the text that explores the core topics in scheduling theory

The second edition of Principles of Sequencing and Scheduling has been revised and updated to provide comprehensive coverage of sequencing and scheduling topics as well as emerging developments in the field. The text offers balanced coverage of deterministic models and stochastic models and includes new developments in safe scheduling and project scheduling, including coverage of project analytics. These new topics help bridge the gap between classical scheduling and actual practice. The authors—noted experts in the field—present a coherent and detailed introduction to the basic models, problems, and methods of scheduling theory. This book offers an introduction and overview of sequencing and scheduling and covers such topics as single-machine and multi-machine models, deterministic and stochastic problem formulations, optimization and heuristic solution approaches, and generic and specialized software methods. This new edition adds coverage on topics of recent
interest in shop scheduling and project scheduling. This important resource: Offers comprehensive coverage of deterministic models as well as recent approaches and developments for stochastic models Emphasizes the application of generic optimization software to basic sequencing problems and the use of spreadsheet-based optimization methods Includes updated coverage on safe scheduling, lognormal modeling, and job selection Provides basic coverage of robust scheduling as contrasted with safe scheduling Adds a new chapter on project analytics, which supports the PERT21 framework for project scheduling in a stochastic environment. Extends the coverage of PERT 21 to include hierarchical scheduling Provides end-of-chapter references and access to advanced Research Notes, to aid readers in the further exploration of advanced topics Written for upper-undergraduate and graduate level courses covering such topics as scheduling theory and applications, project scheduling, and operations scheduling, the second edition of Principles of Sequencing and Scheduling is a resource that covers scheduling techniques and contains the most current research and emerging topics. Industrial, financial, commercial or any kinds of project have at least one common feature: the better organized they are, the higher the profit or the lower the cost. Project management is the principle of planning different projects and keeping them on track within time, cost and resource constraints. The need for effective project management is ever-increasing. The complexity of the environment we live in requires more
sophisticated methods than it did just a couple of decades ago. Project managers might face insurmountable obstacles in their work if they do not adapt themselves to the changing circumstances. On the other hand, better knowledge of project management can result in better plans, schedules and, last but not least, more contracts and more profit. This knowledge can help individuals and firms to stay alive in this competitive market and, in the global sense, utilize the finite resources of our planet in a more efficient way.

The Latest, Most Effective Engineering and Construction project Management Strategies Fully revised throughout, this up-to-date guide presents the principles and techniques of managing engineering and construction projects from the initial conceptual phase, through design and construction, to completion. The book emphasizes project management during the beginning stages of project development to influence the quality, cost, and schedule of a project as early in the process as possible. Featuring an all-new chapter on risk management, the third edition also includes new sections on: Ensuring project quality The owner's team Parametric estimating Importance of the estimator Formats for work breakdown structures Design work packages Benefits of planning Calculations to verify schedules and cost distributions Common problems in managing design Build-operate-transfer delivery methods Based on the author's decades of experience in working with hundreds of project managers, this essential resource includes many new real-world examples and updated sample problems. Project Management for Engineering and Construction, Third Edition, covers: Working with project teams Project initiation Early estimates Project budgeting Development of work plan Design proposals
Project scheduling  
Tracking work  
Design coordination  
Construction phase  
Project close out  
Personal management skills  
Risk management  

A comprehensive book on project management, covering all principles and methods with fully worked examples, this book includes both hard and soft skills for the engineering, manufacturing and construction industries. Ideal for engineering project managers considering obtaining a Project Management Professional (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 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 Standards Institute Guide to Project Management in the Construction Industry), this book is a complete and valuable reference for anyone serious about project management.

Construction Calculations is a manual that provides end users with a comprehensive guide for many of the formulas, mathematical vectors and conversion factors that are commonly encountered during the design and construction stages of a construction project. It offers readers detailed calculations, applications and examples needed in site work, cost estimation, piping and pipefitting, and project management. The book also serves as a refresher course for
some of the formulas and concepts of geometry and trigonometry. The book is divided into sections that present the common components of construction. The first section of the books starts with a refresher discussion of unit and systems measurement; its origin and evolution; the standards of length, mass and capacity; terminology and tables; and notes of metric, U.S, and British units of measurements. The following concepts are presented and discussed throughout the book: Conversion tables and formulas, including the Metric Conversion Law and conversion factors for builders and design professionals Calculations and formulas of geometry, trigonometry and physics in construction Rudiments of excavation, classification, use of material, measurement and payment Soil classification and morphology, including its physicochemical properties Formulas and calculations needed for soil tests and evaluations and for the design of retaining structures Calculations relating to concrete and masonry Calculations of the size/weight of structural steel and other metals Mechanical properties of wood and processing of wood products Calculations relating to sound and thermal transmission Interior finishes, plumbing and HVAC calculations Electrical formulas and calculations Construction managers and engineers, architects, contractors, and beginners in engineering, architecture, and construction will find this practical guide useful for managing all aspects of construction. Work in and convert between building dimensions, including metric Built-in right-angle solutions Areas, volumes, square-ups Complete stair layouts Roof, rafter and framing solutions Circle: arcs, circumference, segments

Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is
Although projects always carry risk, too many projects run late or exceed their original budgets by eye-watering amounts. This book is a comprehensive guide to the procedures needed to ensure that projects will be delivered on time, to specification and within budget. Eight expert contributors have combined their considerable talents to explain all aspects of project control from project conception to completion in an informative text, liberally supported where necessary by clear illustrations. This handbook will benefit all project practitioners, including project managers and those working in project management offices. It will also provide an invaluable guide for students studying for higher degrees in project management and its associated disciplines.

Construction Project Management deals with different facets of construction management emphasizing the basic concepts that any engineering student is supposed to know. The major principles of project management have been derived through real life case studies from the field. Simplified examples have been used to facilitate better understanding of the concepts before going into the large and complex problems. The book features computer applications (Primavera and MS Project) used to explain planning, scheduling, resource leveling, monitoring and reporting; it is highly illustrated with line dia.

A sleeker, more comprehensive approach to construction projects BIM and Construction Management, Second Edition is a complete integration guide, featuring practical advice, project tested methods and workflows, and tutorials for implementing Building Information Modeling and technology in construction. Updated to align with the latest software editions from Autodesk, Trimble and Bentley, this book provides a common sense approach to
leveraging BIM to provide significant value throughout a project's life cycle. This book outlines a results-focused approach which shows you how to incorporate BIM and other technologies into all phases of construction management, such as: Project planning: Set up the BIM project to succeed right from the start by using the right contracts, the right processes and the right technology Marketing: How to exceed customer expectations and market your brand of BIM to win. Pre-construction: Take a practical approach to engineer out risks in your project by using the model early to virtually build and analyze your project, prior to physical construction. Construction: Leverage the model throughout construction to build safer and with better quality. Field work: Learn how mobile technologies have disrupted the way we work in the field to optimize efficiencies and access information faster. Closeout: Deliver a better product to your customer that goes beyond the physical structure and better prepares them for future operations. Additionally, the book provides a look at technology trends in construction and a thoughtful perspective into potential use cases going forward. BIM and Construction Management, Second Edition builds on what has changed in the construction landscape and highlights a new way of delivering BIM-enabled projects. Aligning to industry trends such as Lean, integrated delivery methods, mobile platforms and cloud-based collaboration this book illustrates how using BIM and technology efficiently can create value. 

Know How to Navigate in Large, Complex Projects! This must-have practical handbook for Large, Complex Projects originated in the trenches of actual Project execution. It differs markedly from most handbooks on Project scheduling by taking the Project Manager's point of view. It thus fills a gap between Project management and Schedule professionals to create useful conversations in organizations. It is not a heavy and detailed bible, but rather a practical
reference for Project practitioners in Large Projects. Those Projects require specific approaches to deal with size and complexity. Project Scheduling needs to reflect accurately the condition of the Project, coordinate effectively the work of all contributors and be used to define execution strategies. It is also used to support commercial claims. This handbook presents groundbreaking methods and principles to improve significantly the benefits and reliability of the Project Scheduling process. In this practical Handbook specifically written by and for the Project Manager, discover how to upgrade significantly the effectiveness of Project Scheduling for Large Complex Projects.

Construction Cost Estimating equips a new generation of students and early-career professionals with the skills they need to bid successfully on projects. From developing bid strategies to submitting a completed bid, this innovative textbook introduces the fundamentals of construction estimating through a real-life case study that unfolds across its 24 chapters. Exercises at the end of each chapter offer hands-on practice with core concepts such as quantity take-offs, pricing, and estimating for subcontractor work. Online resources provide instant access to examples of authentic construction documents, including complete, detailed direct work estimates, subcontractor work estimates, general conditions estimates, markups, and summary schedules. Through its unique mix of real-world examples and classroom-tested insights, Construction Cost Estimating ensures that readers are familiar with the entire estimating process even before
setting foot on the jobsite. 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. This text is a comprehensive, stand alone reference for project management scheduling. It features a unique combination of principles/fundamentals of scheduling and project management along with practical applications and tutorials of the 4 most common scheduling software programs—Microsoft Project, Primavera Project Planner (P3), SureTrak, P6 Project Manager and Contractor. Having scheduling information and software instructions in one book obviates the need for two texts, and the exercises and examples in the scheduling portion are tied to the same exercises in the software portions.

Lean Project Delivery and Integrated Practices in Modern Construction is the new and enhanced edition of the pioneering book Modern Construction by Lincoln H. Forbes and Syed M. Ahmed. This book provides a multi-faceted approach for applying lean methodologies to improve design and construction processes. Recognizing the wide diversity in the landscape of projects, and encompassing private and public sector activity, buildings and infrastructure, the book expands upon the detailed coverage of integrated project delivery and new lean tools and
techniques to include: Greater emphasis on the importance of creating a lean culture and the initiatives required to transform the industry; Expanded discussions of the foundational writings in lean construction theory; Exploration of the synergies between "lean" and "green" initiatives; Specific procedures for modifying planning and scheduling activities to improve the performance of the project team; Expanded sections on quality, and topics that have become a part of the lean lexicon, such as Choosing by Advantages, "line of balance"/location-based scheduling, virtual design teams, takt time planning and set-based design; Discussion questions for beginners and advanced lean practitioners; and Improved cross-referencing within the text to help the reader navigate the frameworks, techniques and tools to support the application of lean principles.

The techniques described here enhance the use of resources, reducing waste, minimizing delays, increasing quality and reducing overall costs. They enable practitioners to improve the quality of the built environment, secure higher levels of customer/owner satisfaction, and simultaneously improve their profitability. This book is essential reading for all those wanting to be at the forefront of construction management and lean thinking.

Thomas and Ellis provide detailed, straightforward management practices to improve construction site activity and reduce losses in labor productivity from the
most common site challenges. In a world of tight time frames and highly interdependent processes, scheduling is an indispensable prerequisite for successful project implementation. It is the duty of the architect to manage all the project participants in a goal-oriented manner and to call for their results when the time is right. For this reason, a systematic schedule of target dates, adapted to a project’s sequences and workflows, is a necessary tool for the day-to-day management and monitoring of complex construction projects. Topics: Organizing the planning and construction process The basics of scheduling Goal-oriented presentation formats and levels of detail Developing a schedule Using schedules in the real world The first edition of the Code of Practice for Project Management for Construction and Development, published in 1992, was groundbreaking in many ways. Now in its fifth edition, prepared by a multi-institute task force coordinated by the CIOB and including representatives from RICS, RIBA, ICE, APM and CIC, it continues to be the authoritative guide and reference to the principles and practice of project management in construction and development. Good project management in construction relies on balancing the key constraints of time, quality and cost in the context of building functionality and the requirements for sustainability within the built environment. Thoroughly updated and restructured
to reflect the challenges that the industry faces today, this edition continues to drive forward the practice of construction project management. The principles of strategic planning, detailed programming and monitoring, resource allocation and effective risk management, widely used on projects of all sizes and complexity, are all fully covered. The integration of Building Information Modelling at each stage of the project life is a feature of this edition. In addition, the impact of trends and developments such as the internationalisation of construction projects and the drive for sustainability are discussed in context. Code of Practice will be of particular value to clients, project management professionals and students of construction, as well as to the wider construction and development industries. Much of the information will also be relevant to project management professionals operating in other commercial spheres.

Construction Project Management, Third Edition provides readers with the "big picture" of the construction management process, giving a perspective as to how the construction industry functions in relation to the national economy and in the public's eye. This book focuses on the collaborative effort required to complete any public or private construction project, providing the construction professional with the skills needed to work with and alongside the owner representative, the designer, and within the public's eye. It explains in detail the project elements
and environment, and the responsibilities of the varied project professionals, and follows in detail the chronology of a project. This book is intended to train the readers in basic project management principles for directing the course of a project. The hands-on approach presented in this book takes them through the necessary details for a good understanding of what to expect to complete a successful project. Users of this book will have an understanding, after following through the step-by-step stages, of how to plan and schedule projects. This systematic approach includes the application of project management software.

Master all the modern project scheduling and cost control techniques you need, in one focused tutorial! Randal Wilson's Project Schedule & Cost Control isn't your typical project management guide: it's 100% focused on the specific principles, techniques, and best-practice methodologies of scheduling and cost control. Wilson illuminates key issues through the extensive use of graphs, charts, case studies, and worked examples; and calls your attention to crucial issues that "generic" PM books ignore. Coverage includes: Project structures, including differences between projects and programs, and how those differences affect costing and scheduling Initiation: how projects start, how to develop project charters and stakeholder registers, and how to manage stakeholders Planning, in
depth: what costs must be addressed, and what schedule constraints must be considered.

Project schedule analysis: activity definition, WBS, and work packages; activity sequencing and diagramming; proven methodologies for estimating resources and activity durations; and schedule development.

Project cost analysis: gathering and estimating all project costs, including labor, materials, vendor bids, subcontractors, contracts, equipment, facilities, and direct/indirect costs. Budgeting via top-down, bottom-up, and activity-based methods.

Project monitoring and control: earned value, tracking Gantt, S-Curves, performance reviews, milestone analysis, change control systems, estimate at completion, forecasting, and much more.

For both project management newcomers and working project managers who need to sharpen their skills.

This title was first published in 2000: The author's masterly exposition of the principles and practice of project management has been pre-eminent in its field for four decades. It was among the very few early books to treat project management holistically, rather than as a collection of separate techniques. It thus explains the entire project management process in great detail, demonstrating techniques ranging from the simplest of charts to sophisticated computer applications. Everything is reinforced throughout with case examples and diagrams. The text has been completely restructured and largely rewritten for
this ninth edition, so that the sequence now follows even more closely the life-
cycle of a typical project from its earliest definition to final close-out. Case
eamples and diagrams have all been reviewed, updated, augmented or
replaced.
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 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.
Construction Scheduling Principles and Practices
Explaining both simple and difficult concepts through examples and its easily-
read style, this complete book should support any needs the professional has on
the job. Particular attention is paid to the concepts most frequently used in
industry practice, in order to produce the best book possible on the subject of effective scheduling. Topics covered emphasize: precedence network diagramming; resource allocation; monitoring; control; as well as report generation and interpretation. An excellent reference and learning tool for project managers, project engineers, project control specialists, or supervisors. Standard ANSI/ASCE/CI 67-17 presents 35 guiding principles that can be used on construction projects to assess responsibility for delays and to calculate associated damages.

Construction Project Management provides a thorough understanding of construction project management techniques with the help of various concepts, practical insight, real-life examples and skills to execute large and small projects. Broadly, this comprehensive book is organized in 5 parts: Introducing Construction Project Management, Developing Project Construction Time Schedule, Developing Project Resources Plans, Planning and Budgeting Construction Costs, Controlling Project Construction Plan. Focusing on project planning, scheduling and controlling techniques, the 3rd Edition covers the practical application of the knowledge and skills required to plan and control construction project scope, time, resources, cost, risk and integration using project management technique.
Construction Scheduling, Cost Optimization and Management presents a general mathematical 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 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 optimization, including construction engineers, highway engineers, transportation engineers, contractors and architects. It will also be useful for researchers, and graduates on courses in construction scheduling and planning.

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 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 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 authoritative industry guide on good practice for planning and scheduling in construction This handbook acts as a guide to good practice, a text to accompany learning and a reference document for those needing information on background, best practice, and methods for practical application. A Handbook for Construction Planning & Scheduling presents the key issues of planning and programming in scheduling in a clear, concise and practical way. The book divides into four main sections: Planning and Scheduling within the Construction Context; Planning and Scheduling Techniques and Practices; Planning and
Scheduling Methods; Delay and Forensic Analysis. The authors include both basic concepts and updates on current topics demanding close attention from the construction industry, including planning for sustainability, waste, health and safety and Building Information Modelling (BIM). The book is especially useful for early career practitioners - engineers, quantity surveyors, construction managers, project managers - who may already have a basic grounding in civil engineering, building and general construction but lack extensive planning and scheduling experience. Students will find the website helpful with worked examples of the methods and calculations for typical construction projects plus other directed learning material. This authoritative industry guide on good practice for planning and scheduling in construction is written in a direct, informative style with a clear presentation enabling easy access of the relevant information with a companion website providing additional resources and learning support material. The authoritative industry guide on construction planning and scheduling direct informative writing style and clear presentation enables easy access of the relevant information companion website provides additional learning material. Comprehensive and unique in its perspective, this reliable, easy-to-read book covers all areas of the Construction Management industry—with a balanced focus on both theory and practicality. It helps users gain a working knowledge of the
whole Building Industry, as well as the technical skills required to manage a construction project from conception through occupancy. It emphasizes current industry practices, making it a useful reference for the construction professional. All topic areas are clearly marked for easy reference; these include: construction project management, contracts and delivery methods, detailed estimating, scheduling, network construction, project control, and project updating. For construction professionals, including engineers, technicians, schedulers, and planners.

The National Academy of Construction (NAC) has determined that disputes, and their accompanying inefficiencies and costs, constitute a significant problem for the industry. In 2002, the NAC assessed the industry's progress in attacking this problem and determined that although the tools, techniques, and processes for preventing and efficiently resolving disputes are already in place, they are not being widely used. In 2003, the NAC helped to persuade the Center for Construction Industry Studies (CCIS) at the University of Texas and the Alfred P. Sloan Foundation to finance and conduct empirical research to develop accurate information about the relative transaction costs of various forms of dispute resolution. In 2004 the NAC teamed with the Federal Facilities Council (FFC) of the National Research Council to sponsor the "Government/Industry Forum on..."
Reducing Construction Costs: Uses of Best Dispute Resolution Practices by Project Owners." The forum was held on September 23, 2004, at the National Academy of Sciences in Washington, D.C. Speakers and panelists at the forum addressed several topics. Reducing Construction Costs addresses topics such as the root causes of disputes and the impact of disputes on project costs and the economics of the construction industry. A second topic addressed was dispute resolution tools and techniques for preventing, managing, and resolving construction-related disputes. This report documents examples of successful uses of dispute resolution tools and techniques on some high-profile projects, and also provides ways to encourage greater use of dispute resolution tools throughout the industry. This report addresses steps that owners of construction projects (who have the greatest ability to influence how their projects are conducted) should take in order to make their projects more successful.