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This book presents the proceedings of the 8th International Conference on Engineering, Project, and Product Management (EPPM 2017), highlighting the importance of engineering, project and product management in a region of the world that is in need of transformation and rebuilding. The aim of the conference was to bring together the greatest minds in engineering and management and offer them a platform to share their innovative, and potentially transformational, findings. The proceedings are comprehensive, multidisciplinary, and advanced in their approach with an appeal not only for academicians and university students but also for professionals in various engineering fields, especially construction, manufacturing and production.

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.

Get the updated industry standard for a new age of construction! For more than fifty years, Olin's Construction has been the cornerstone reference in the field for architecture and construction professionals and students. This new edition is an invaluable resource that will provide in-depth coverage for decades to come. You'll find the most up-to-date principles, materials, methods, codes, and standards used in the design and construction of contemporary concrete, steel, masonry, and wood buildings for resi-

dential, commercial, and institutional use. Organized by the principles of the MasterFormat® 2010 Update, this edition: Covers site-work; concrete, steel, masonry, wood, and plastic materials; sound control; mechanical and electrical systems; doors and windows; finishes; industry standards; codes; barrier-free design; and much more Offers extensive coverage of the metric system of measurement Includes more than 1,800 illustrations, 175 new to this edition and more than 200 others, revised to bring them up to date Provides vital descriptive information on how to design buildings, detail components, specify materials and products, and avoid common pitfalls Contains new information on sustainability, expanded coverage of the principles of construction management and the place of construction managers in the construction process, and construction of long span structures in concrete, steel, and wood The most comprehensive text on the subject, Olin's Construction covers not only the materials and methods of building construction, but also building systems and equipment, utilities, properties of materials, and current design and contracting requirements. Whether you're a builder, designer, contractor, or manager, join the readers who have relied on the principles of Olin's Construction for more than two generations to master construction operations.

The purpose of the 4th International Asia Conference on Industrial Engineering and Management Innovation (IEMI 2013) is to bring together researchers, engineers and practitioners interested in the application of informatics to usher in new advances in the industrial engineering and management fields.

Construction Methods and Management has been thoroughly revised and updated to present a comprehensive introduction to the methods and management of today's construction industry. This text covers the material so thoroughly that it can serve as the basic text for a variety of construction courses. S. W. Nunnally covers critical path methods, contracts, construction economics, productivity, safety, and health in addition to building construction, heavy construction, and earthmoving. In addition, the author includes over 250 illustrations of current equipment, procedures, and management techniques, and updated numerous end-of-chapter problems, questions, and computer applications.

The book presents a mixed research method adopted to assess and present the Toyota Way practices within construction firms in general and for firms in China specifically. The results of an extensive structured questionnaire survey based on the Toyota Way-styled attributes identified were developed and data collected from building professionals working in construction firms is presented. The quantitative data presented in the book explains the status quo of the Toyota Way-styled practices implemented in the construction industry, as well as the extent to which these attributes were perceived for lean construction management. The book highlights all the actionable attributes derived from the Toyota Way model appreciated by the building professionals, but

alerts the readers that some attributes felled short of implementation. Further findings from in-depth interviews and case studies are also presented in the book to provide to readers an understanding how these Toyota Way practices can be implemented in real-life projects. Collectively, all the empirical findings presented in this book can serve to enhance understanding of Toyota Way practices in the lean construction management context. The readers are then guided through to understand the gaps between actual practice and Toyota Way-styled practices, and the measures that they may undertake to circumvent the challenges for implementation. The book also presents to readers the SWOT analysis that addresses the strengths, weaknesses, opportunities and threats towards the implementation of the Toyota Way in the construction industry. The book prescribes the Toyota Way model for use in construction firms to strategically implement lean construction management. The checklist presented in the book enables readers to draw lessons that may be used additionally as a holistic assessment tool for measuring the maturity of firms with respect to their Toyota Way implementation. Consequent to this, management would then be in a better position to develop plans for Toyota Way implementation by focusing on weak areas, strengthening them, and thus increasing the likelihood of success in the implementation of the Toyota Way. In a nutshell, this book provides a comprehensive and valuable resource for firms not only in the construction industry but also businesses outside of the construction sector to better understand the Toyota Way and how this understanding can translate to implementation of lean construction/business management to enhance profitability and survivability in an increasingly competitive global market place.

"Construction Methods and Management, 8/e, "is designed to guide construction engineers and managers in planning, estimating, and directing construction operations safely and effectively. Comprehensive and up-to-date, the text integrates major construction management topics with an explanation of the methods of heavy/highway and building construction. It incorporates both customary U.S. units and metric (SI) units and is the only text to present concrete formwork design equations and procedures using both measurement systems. This edition features information on the latest developments in soil excavation, asphalt paving, and earthmoving equipment. Plus! A companion student website, "MyConstructionKit," is now available! MyConstructionKit is an online resource that offers a wealth of study tools to engage students for a variety of Pearson construction management, architecture, and civil engineering technology textbooks!

".. integrates business knowledge, principles and practices of project management and construction management... will help you achieve a strategic vision, continuously improve construction operations and manage industrial, commercial and institutional projects from conception to occupancy." -- Publisher's description.

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 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®) Certification 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 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 thoroughly covers every key component of the subject. This Tenth Edition features: New sections on scope changes, exiting a project, collective be-

lief, and managing virtual teams More than twenty-five case studies, 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 registered marks of the Project Management Institute, Inc.)

Introduction to Construction Management, Second Edition, is the beginner's guide to key concepts, terms, processes and practices associated with modern construction management. The new edition has been fully updated with new data, case studies and enhancements and remains the most practical and accessible book on the subject available. Significant new topics have been added including construction ethics, coverage of mental health and well-being in the industry, project delivery and Construction 4.0, to make this the most cutting-edge book available for students on construction and engineering management courses. Supported by diagrams, illustrations and case studies, the book starts with a general introduction to the industry and covers the relevant management theory before providing applied coverage of: Production management Commercial management Quality management Health and Safety management Environmental management This is the most approachable text available for anyone starting to learn about construction management at any level.

Note from the publisher: Now in its sixth edition, this bestselling reference focuses on the basic materials and methods used in building construction. Emphasizing common construction systems such as light wood frame, masonry bearing wall, steel frame, and reinforced concrete construction, the new edition includes new information on building materials properties; the latest on "pre-engineered" building components and sustainability issues; and reflects the latest building codes and standards. It also features an expanded series of case studies along with more axonometric detail drawings and revised photographs for a thoroughly illustrated approach.

The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. Construction Methods and Management, 8th Edition, is designed to guide construction engineers and managers in planning, estimating, and directing construction operations safely and effectively. Comprehensive and up-to-date, the text integrates major construction management topics with an explanation of the methods of heavy/highway and building construction. It incorporates both customary U.S. units and metric (SI) units and is the only text to present concrete formwork design equations and procedures using both measurement systems. This edition features information on the latest developments in soil excavation, asphalt paving, and earthmoving equipment.

Construction Law and Management explains the state of design information appropriate to a given procurement route, and the need to identify risks and strategies for managing them. This handy desk side reference offers a comprehensive guide to construction law and management and is essential reading for anyone in the construction, architecture and engineering industries. This new edition of the classic quantity surveying textbook retains its basic structure but has been thoroughly updated to reflect recent changes in the industry, especially in procurement. Although over the last 20 years a number of new procurement

methods have evolved and become adopted, the recession has seen many clients revert to established traditional methods of procurement so the fundamentals of cost planning still apply - and should not be ignored. The first edition of this leading textbook was published in 1964 and it continues to provide a comprehensive introduction to the practice and procedures of cost planning in the procurement of buildings. This 9th edition has been thoroughly updated to reflect changes that have occurred in the UK construction industry in the past six years. Whilst retaining its core structure of the three-phase cost planning process originally developed by Ferry and Brandon, the text provides a thorough grounding in contemporary issues including procurement innovation, whole life cycle costing and modelling techniques. Designed to support the core cost planning studies covered by students reading for degrees in quantity surveying and construction management, it provides a platform for understanding the fundamental importance of effective cost planning practice. The principals of elemental cost planning are covered from both pre- and post-contract perspectives; the role of effective briefing and client/stakeholder engagement as best practice is also reinforced in this text. This new edition: Addresses The Soft Landings Framework (a new govt. initiative, especially for schools) to make buildings perform radically better and much more sustainably. Puts focus on actual performance in use at brief stage, during design and construction, and especially before and after handover. Covers recent changes in procurement, especially under the NEC and PFI Provides more on PPP and long-term maintenance issues Offers an improved companion website with tutorial worksheets for lecturers and Interactive spreadsheets for students, e.g. development appraisal models; lifecycle costing models

The Eighth Edition of Construction Planning, Equipment and Methods follows in the footsteps of the previous editions by providing the reader with the fundamentals of machine utilization and production estimating in a logical, simple and concise format. This text is aimed at supporting a basic undergraduate construction equipment course that is part of an engineering curriculum. It is also applicable to graduate equipment courses. In addition, since technology is constantly evolving, this text provides an understanding of machine capabilities and how to properly apply those capabilities to construction challenges.

This 5th edition covers the latest practices and processes of various alternative methods for the construction of tall buildings from foundation to roof. The text progresses through the stages of site investigation, excavation and earthmoving, foundation construction, basement construction, structural systems for the superstructure, site and material handling, wall and floor construction, external wall and roof construction. The planning, safety and environmental considerations, methods, materials, equipment, and construction sequence of the various proprietary systems for each of these respectively stages are discussed. The target readers are practitioners and students in building and construction professions including architecture, engineering, project and facilities management, building and construction management, real estate, quantity and land surveying.

When used appropriately, building performance simulation has the potential to reduce the environmental impact of the built environment, to improve indoor quality and productivity, as well as to facilitate future innovation and technological progress in construction. Since publication of the first edition of Building Performance Simulation for Design and Operation, the discussion has shifted from a focus on software features to a new agenda, which centres on the effectiveness of building performance simulation in building life cycle processes. This new edition provides a unique and comprehensive overview of building performance simulation

for the complete building life cycle from conception to demolition, and from a single building to district level. It contains new chapters on building information modelling, occupant behaviour modelling, urban physics modelling, urban building energy modelling and renewable energy systems modelling. This new edition keeps the same chapter structure throughout including learning objectives, chapter summaries and assignments. Moreover, the book: • Provides unique insights into the techniques of building performance modelling and simulation and their application to performance-based design and operation of buildings and the systems which service them. • Provides readers with the essential concepts of computational support of performance-based design and operation. • Provides examples of how to use building simulation techniques for practical design, management and operation, their limitations and future direction. It is primarily intended for building and systems designers and operators, and postgraduate architectural, environmental or mechanical engineering students. This book constitutes the refereed proceedings of the 10th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2013, held in Nantes, France, in July 2013. The 63 full papers presented together with 2 keynote talks were carefully reviewed and selected from 91 submissions. They are organized in the following topical sections: PLM for sustainability, traceability and performance; PLM infrastructure and implementation processes; capture and reuse of product and process information; PLM and knowledge management; enterprise system integration; PLM and influence of/from social networks; PLM maturity and improvement concepts; PLM and collaborative product development; PLM virtual and simulation environments; and building information modeling.

The definitive contracting reference for the construction industry, updated and expanded Construction Contracting, the industry's leading professional reference for five decades, has been updated to reflect current practices, business methods, management techniques, codes, and regulations. A cornerstone of the construction library, this text presents the hard-to-find information essential to successfully managing a construction company, applicable to building, heavy civil, high-tech, and industrial construction endeavors alike. A wealth of coverage on the basics of owning a construction business provides readers with a useful "checkup" on the state of their company, and in-depth exploration of the logistics, scheduling, administration, and legal aspects relevant to construction provide valuable guidance on important facets of the business operations. This updated edition contains new coverage of modern delivery methods, technology, and project management. The field of construction contracting comprises the entire set of skills, knowledge, and conceptual tools needed to successfully own or manage a construction company, as well as to undertake any actual project. This book gives readers complete, up-to-date information in all of these areas, with expert guidance toward best practices. Learn techniques for accurate cost estimating and effective bidding Understand construction contracts, surety bonds, and insurance Explore project time and cost management, with safety considerations Examine relevant labor law and labor relations techniques Between codes, standards, laws, and regulations, the construction industry presents many different areas with which the manager needs to be up to date, on top of actually doing the day-to-day running of the business. This book provides it all under one cover - for the project side and the business side, Construction Contracting is a complete working resource in the field or office.

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 man-

agers 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. • The complete body of knowledge for project management professionals in the engineering, manufacturing and construction sectors • Covers all hard and soft topics in both 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 • Written by a qualified PMP exam accreditor and accompanied by online Q&A resources for self-testing

This book covers various current and emerging topics in construction management and real estate. Papers selected in this book cover a wide variety of topics such as new-type urbanization, planning and construction of smart city and eco-city, urban-rural infrastructure development, land use and development, housing market and housing policy, new theory and practice of construction project management, big data application, smart construction and BIM, international construction (i.e., belt and road project), green building, off-site prefabrication, rural rejuvenation and eco-civilization and other topics related to construction management and real estate. These papers provide useful references to both scholars and practitioners. This book is the documentation of "The 24th International Symposium on Advancement of Construction Management and Real Estate," which was held in Chongqing, China.

It's often said that the construction professional has to be a "jack of all trades, and master of all." This text covers a wide range of subjects, reflecting the breadth of knowledge needed to understand the dynamics of this large and complex industry. This edition includes updated chapters on planning and scheduling, a new chapter addressing linear scheduling methods, material regarding the historical background of construction as a profession, and includes an Instructor Resource of solutions to the end-of-chapter review exercises. This text has become a standard course text at many universities. The first four editions have enjoyed wide success as an introductory treatment of the subjects which are critical to success in the construction industry. This fifth edition preserves the features that have been most appreciated by its users throughout the years, and adds suggestions provided by instructors and students through formal surveys and informal feedback to the authors.

This book provides 101 real-life construction management case studies from an author with over 40 years' experience in the construction industry and as a lecturer in construction management. Over 14 chapters, Len Holm has included case studies from real jobsites that cover organization, procurement, estimating, scheduling, subcontractors, communications, quality and cost control, change orders, claims and disputes, safety, and close-outs. Other hot topics covered include BIM, sustainability, and lean. Each case is written in straightforward language and designed to test the reader's independent and critical thinking skills to develop their real-world problem-solving ability. The cases are open to interpretation, and students will need to develop their own opinions of what's presented to them in order to reach a satisfactory solution. The cases are ideal for use in the classroom or flipped classroom, for individual or group exercises, and to encourage research, writing, and presenting skills in all manner of applied con-

struction management situations. Such a broad and useful selection of cases studies cannot be found anywhere else. While there is often no "right" answer, the author has provided model solutions to instructors through the online eResource.

Construction teams are usually complex, interdisciplinary and temporary, and, as such, the need for effective communication is crucial. However, published data regarding the manner in which individuals interact within the temporary project team is scarce, with little other than anecdotal evidence available. Recognizing this gap, *Communication in Construction Teams* provides a comprehensive overview of the literature on interpersonal communication and delivers a critical review of various research methods previously used in and outside the construction management field. Making use of Bales' interaction process analysis (IPA), a tool used successfully in many fields to collect interaction data, the text investigates the link between successful projects and the effectiveness of communication, finding that participants in the construction process exhibit regular patterns of interaction and, most significantly, that there are different patterns of interaction associated with successful and unsuccessful projects. Putting forward a number of practical suggestions to assist all actors involved in construction projects, this insightful publication will be of interest to researchers in the fields of building design and construction management.

PMBOK® Guide is the go-to resource for project management practitioners. The project 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 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 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 (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 delivering project outputs but also enabling outcomes; and • Integrates with PMI standards+™ for information and standards application content based on project type, development approach, and industry sector.

The Structural Engineer's Pocket Book British Standards Edition is the only compilation of all tables, data, facts and formulae needed for scheme design to British Standards by structural engineers in a handy-sized format. Bringing together data from many sources into a compact, affordable pocketbook, it saves valuable time spent tracking down information needed regularly. This second edition is a companion to the more recent Eurocode third edition. Although small in size, this book contains the facts and figures needed for preliminary design whether in the office or on-site. Based on UK conventions, it is split into 14 sections including geotechnics, structural steel, reinforced concrete, masonry and timber, and includes a section on sustainability covering general concepts, materials, actions and targets for structural engineers. The management of rights-of-way by electric and telephone utilities, highway departments, gas pipeline companies, and railroads around the world is guided and constrained by policies and regulations to protect the environment. Companies that manage rights-of-way are required to comply with these regulations, and are seeking the most cost-effective management practices that, at the same time, demonstrate stewardship of the environment. Protection of biodiversity and sustainable development are especially important as national goals in many countries, and right-

s-of-way managers are seeking practical ways to include public participation in their operations. * Addresses environmental issues in rights-of-way planning and management * Provides a forum for information exchange among various agencies, industries, environmental consultants, and academic organizations * Presents peer-reviewed papers to help achieve a better understanding of current environmental issues involved in rights-of-way management

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.

While the construction process still requires traditional skills, the dynamic nature of construction demands of its managers improved understanding of modern business, production and contractual practices. This well established, core undergraduate textbook reflects current best practice in the management of construction projects, with particular emphasis given to supply chains and networks, value and risk management, BIM, ICT, project arrangements, corporate social responsibility, training, health and welfare and environmental sustainability. The overall themes for the Eighth Edition Modern Construction Management are: Drivers for efficiency: lean construction underpinning production management and off-site production methods. Sustainability: reflecting the transition to a low carbon economy. Corporate Social Responsibility: embracing health & safety and employment issues. Modern contractual systems driving effective procurement Building Information Modelling directed towards the improvement of collaboration in construction management systems

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In today's climate the need for a closer understanding of the relationship between the two inter-related topics of risk management and finance on construction projects is becoming increasingly crucial to achieving the objectives of the investor, the end-user and the constructor and its supply chain, especially as interest in PFI and PPP arrangements continues to grow around the world. Risk and Financial Management in Construction shows the relationship between the Construction Project Manager's task of balancing time, cost and quality and the need to satisfy the client's requirements efficiently, effectively and professionally whilst at the same time contributing to the contractor's future sustainability. The book covers Risk Management describing the tools and methods to reduce the occurrence and consequences of risk, and the financial management of construction projects from raising funding, to contract strategy and through to estimating, budgeting and cost control. It includes a chapter covering international project risk, bringing together the issues of risk management, prime contracting, and PFI funding for construction projects undertaken away from the contractors main home market. Risk and Financial Management in Construction is aimed at those practising in, or studying to enter, the project management profession in providing a strategic and operational knowledge of these subjects allow-

ing the reader easy access to the key points through a wide selection of models, checklists and easy to find lists in all of the key areas.

The management of construction projects is a wide ranging and challenging discipline in an increasingly international industry, facing continual challenges and demands for improvements in safety, in quality and cost control, and in the avoidance of contractual disputes. Construction Management grew out of a Leonardo da Vinci project to develop a series of Common Learning Outcomes for European Managers in Construction. Financed by the European Union, the project aimed to develop a library of basic materials for developing construction management skills for use in a pan-European context. Focused exclusively on the management of the construction phase of a building project from the contractor's point of view, Construction Management covers the complete range of topics of which mastery is required by the construction management professional for the effective delivery of new construction projects. With the continued internationalisation of the construction industry, Construction Management will be required reading for undergraduate and postgraduate students across Europe.

Comprehensive and up-to-date, the text integrates major construction management topics with an explanation of the methods of heavy/highway and building construction. It incorporates both customary U.S. units and metric (SI) units and is the only text to present concrete formwork design equations and procedures using both measurement systems. This edition features information on new construction technology, the latest developments in soil and asphalt compaction, the latest developments in wood preservation and major health, safety and environmental concerns. Explains latest developments in soil and asphalt compaction. Presents the latest developments in wood preservation materials and techniques which respond to environmental concerns. Expanded and updated coverage of construction safety and major health hazards and precautions. Designed to guide construction engineers and managers in planning, estimating, and directing construction operations safely and effectively.

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.

A comprehensive guide to temporary structures in construction projects Temporary Structure Design is the first book of its kind, presenting students and professionals with authoritative coverage of the major concepts in designing temporary construction structures. Beginning with a review of statistics, it presents the core topics needed to fully comprehend the design of temporary structures: strength of materials; types of loads on temporary structures; scaffolding design; soil properties and soil loading; soldier beam, lagging, and tiebacks; sheet piling and strutting; pressure and forces on formwork and falsework; concrete formwork design; falsework; bracing and guying; trestles and equipment bridges; and the support of existing structures. Temporary structures during construction include scaffolding, formwork, shoring, ramps, platforms, earth-retaining structures, and other construction structures that are not part of the permanent installation. These structures are less regulated and monitored than most other parts of the construction process, even though they are often supporting tons of steel or concrete—and the safety of all workers on the site depends on these structures to perform as designed. Unfortunately, most tragic failures occur during construction and are usually the result of improperly designed, con-

structed, and/or maintained temporary structures. Temporary Structure Design fills an important need in the literature by providing a trusted, comprehensive guide to designing temporary construction structures. Serves as the first book to provide a design-oriented approach to the design of temporary structures Includes coverage of the various safety considerations inherent in temporary structure design and construction Provides information

on estimating cost and schedules for these specialized structures Covers formwork and falsework, as well as personnel protection, production support, environmental protection, and foundational structures If you're a student or a professional working in the field of construction or structural engineering, Temporary Structure Design is a must-have resource you'll turn to again and again.