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Construction Management-Daniel W. Halpin 2017-08-07 Revised edition of: Construction management / Daniel W. Halpin, Bolivar A. Senior. 2011. Design of Construction and Process Operations-Daniel W. Halpin 1976 Modern Construction Management-Frank Harris 1985 Location-Based Management for Construction-Russell Kenley 2006-09-27 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 aspects of management practice to students and professionals based in the construction industry. It is also important for those involved in allied fields such as design, project development, and site monitoring and inspection. The book addresses each stage of the construction project from conception to completion, giving a perspective on the whole life cycle often missing from textbooks. The author also balances engineering concerns with the human resource and personal aspects of construction management that are so important to the successful outcome of a project. Analysis and Performance of Fiber Composites-Bhagwan D. Agarwal 1990-10-08 Having fully established themselves as workable engineering materials, composite materials are now increasingly commonplace around the world. Serves as both a text and reference guide to the behavior of composite materials in different engineering applications. Revised for this Second Edition, the text includes a general discussion of composites as material, practical aspects of design and performance, and further analysis that will be helpful to those engaged in research on composites. Each chapter closes with references for further reading and a set of problems that will be useful in developing a better understanding of the subject. Productivity in Construction-S. P. Dozzi 1993 Open-Channel Flow-M Hanif Chaudhry 2007-12-04 Open Channel Flow, 2nd
Construction Management is written for senior-level undergraduate and graduate courses on steady and unsteady open-channel flow. The book is comprised of two parts: Part I covers steady flow and Part II describes unsteady flow. The second edition features considerable emphasis on the presentation of modern methods for computer analyses; full coverage of unsteady flow; inclusion of typical computer programs; new problem sets and a complete solution manual for instructors.

Constructo-Daniel W. Halpin 1973

Construction Planning and Scheduling-Jimmie Hinze 2012 Construction Planning and Scheduling, Fourth Edition offers broad coverage of all major scheduling subjects. This comprehensive resource is designed for construction management, planning and scheduling. It follows a logical progression, introducing precedence diagramming early and following with chapters on activity durations, resource allocations, network schedules, and more. It reflects current trends in scheduling (short-interval scheduling, computer scheduling, linear scheduling etc.) and includes chapters on arrow diagramming and PERT. With an eye on application, it includes a unique discussion of contract provisions related to scheduling and incorporates a sample project throughout.

Fundamentals of Transportation Engineering-Jon D. Fricker 2004

"Fundamentals of Transportation Engineering: A Multimodal Systems Approach" is intended for the first course in Transportation Engineering. Combining topics that are essential in an introductory course with information that is of interest to those who want to know why certain things in transportation are the way they are, the text places a strong emphasis on the relationship between the phases of a transportation project. The text familiarizes students with the standard terminology and resources involved in transportation engineering, provides realistic scenarios for students to analyze, and offers numerous examples designed to develop problem-solving skills. Features: Non-automobile modes addressed extensively: Public transit, air transportation, and freight modes. Purposeful, but flexible sequence of topics. Ongoing case study of a single region called "Mythaca," which shows students the interconnections between many transportation issues. Chapter opening scenarios: Each chapter begins with a scenario designed to orient students to a transportation problem that might confront a transportation engineer. Scenarios, examples, and homework problems based on the extensive experience of the authors. Traditional, standard transportation engineering combined with the needs of future transportation engineering. Special Discussion Boxes: "Think About It" boxes provide students with highlighted topics and concepts to reinforce material.

Construction Management JumpStart-Barbara J. Jackson 2010-06-03 Launch your career in construction management with this one-of-a-kind book. The construction management industry is expected to increase employment by 16 percent over the next decade. This second edition of a bestselling introduction to construction management walks you through each stage of the construction management process. Written from the constructor's perspective, this book will familiarize you with all the construction management fundamentals and how Building Information Modeling (BIM) is impacting the construction management profession. Covers interoperability of technology advances in the construction industry. Explains how BIM is challenging the traditional approach to project delivery and how this affects the constructor's role. Elaborates each stage of the design and construction process and the tasks associated with each of them. Shows step-by-step how to estimate project costs, administer contracts, manage job site, and construction operations, plan and schedule a project, monitor project performance, manage project quality and safety, and assess project risks. Provides review questions at the end of each chapter to help enforce understanding. The tried-and-true project management principles presented in this book will help ensure you a successful start to your career.

Project Management-H. N. Ahuja 1984-04-13 Completely rewritten book introducing quantitative analysis techniques for complex construction projects. Discusses and explains the need for analytic tools, and then demonstrates their use in planning and control of projects. Applies a systems approach to project planning and control, and describes the methodology step-by-step. Describes the use of computers in project planning and control.


Education for Life and Work-National Research Council 2013-01-18 Americans have long recognized that investments in public education contribute to the common good, enhancing national prosperity and supporting stable families, neighborhoods, and communities. Education is even more critical today, in the face of economic, environmental, and social challenges. Today's children can meet future challenges if their schooling
and informal learning activities prepare them for adult roles as citizens, employees, managers, parents, volunteers, and entrepreneurs. To achieve their full potential as adults, young people need to develop a range of skills and knowledge that facilitate mastery and application of English, mathematics, and other school subjects. At the same time, business and political leaders are increasingly asking schools to develop skills such as problem solving, critical thinking, communication, collaboration, and self-management - often referred to as "21st century skills." Education for Life and Work: Developing Transferable Knowledge and Skills in the 21st Century describes this important set of key skills that increase deeper learning, college and career readiness, student-centered learning, and higher order thinking. These labels include both cognitive and non-cognitive skills - such as critical thinking, problem solving, collaboration, effective communication, motivation, persistence, and learning to learn. 21st century skills also include creativity, innovation, and ethics that are important to later success and may be developed in formal or informal learning environments. This report also describes how these skills relate to each other and to more traditional academic skills and content in the key disciplines of reading, mathematics, and science. Education for Life and Work: Developing Transferable Knowledge and Skills in the 21st Century summarizes the findings of the research that investigates the importance of such skills to success in education, work, and other areas of adult responsibility and that demonstrates the importance of developing these skills in K-16 education. In this report, features related to learning these skills are identified, which include teacher professional development, curriculum, assessment, after-school and out-of-school programs, and informal learning centers such as exhibits and museums.


Fundamentals of Geotechnical Engineering-Braja M. Das 2016-01-01 FUNDAMENTALS OF GEOTECHNICAL ENGINEERING, 5E offers a powerful combination of essential components from Braja Das' market-leading books: PRINCIPLES OF GEOTECHNICAL ENGINEERING and PRINCIPLES OF FOUNDATION ENGINEERING in one cohesive book. This unique, concise geotechnical engineering book focuses on the fundamental concepts of both soil mechanics and foundation engineering without the distraction of excessive details or cumbersome alternatives. A wealth of worked-out, step-by-step examples and valuable figures help readers master key concepts and strengthen essential problem solving skills. Prestigious
Management and the Arts—William Byrnes 2012-08-21 Management and the Arts, Fourth Edition provides you with theory and practical applications from all management perspectives including planning, marketing, finance, economics, organizational, staffing, and group dynamics ALL related to an arts organization. Whether you are a manager in a theatre, museum, dance company, or opera, you will gain useful insights into management. Topics written especially to help you with your management skills include: * How arts organizations and management evolved * The theories and processes behind strategic planning and decision making * Organizing and organizational design * Staffing and personal relations * The tools and techniques available from communicating effectively and keeping track of information * Budgeting, fundraising, and financial management * Integrating various management theories and practical applications * How to work effectively with boards * Sections on e-marketing and Web marketing * Includes: case studies, statistics, career, and financial information Revised to reflect the latest thinking and trends in managing, reengineering and improving information systems. This volume should be a useful reference for anyone in the fields of general management, systems and control theory, software engineering and operation systems.

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Professionalization, Leadership and Management in the Early Years-Linda Miller 2010-11-09 With the rapid change experienced by the Early Years Workforce over recent times, this book considers what constitutes professionalization in the sector, and what this means in practice. Bringing a critical perspective to the developing knowledge and understanding of early years practitioners at various stages of their professional development, it draws attention to key themes and issues. Chapters are written by leading authorities, and provide case studies, question and discussion points to facilitate critical thinking. Topics covered include: - constructions of professional identities - men in the early years - multi-disciplinary working in the early years - professionalization in the nursery - early childhood leadership and policy Written in an accessible and relevant to all levels of early years courses, the book is highly relevant to those studying at Masters level, and has staggered levels of Further Reading, that encourage reflection and progression.

Open Channel Hydraulics-A. Osman Akan 2011-02-24 Open Channel Hydraulics is written for undergraduate and graduate civil engineering students, and practicing engineers. Written in clear and simple language, it introduces and explains all the main topics required for courses on open channel flows, using numerous worked examples to illustrate the key points. With coverage of both introduction to flows, practical guidance to the design of open channels, and more advanced topics such as bridge hydraulics and the problem of scour, Professor Akan's book offers an unparalleled user-friendly study of this important subject - Clear and simple style suited for undergraduates and graduates alike - Many solved problems and worked examples - Practical and accessible guide to key aspects of open channel flow

Construction Management-Daniel W. Halpin 1980-08-21 Examines the 4 M's of Construction Management—Money, Machines, Materials, and Manpower. Discusses the legal and management organization of a construction firm and the writing of contracts. Reviews the life cycle of a project, covering the needs of the project, the design sequence, the start-up and management of construction.

Materials for Civil and Construction Engineers-Michael S. Mamlouk 2013 For courses in Civil Engineering Materials, Construction Materials, and Construction Methods and Materials offered in Civil, Environmental, or Construction engineering departments. This introduction gives students a basic understanding of the material selection process and the behavior of materials - a fundamental requirement for all civil and construction engineers performing design, construction, and maintenance. The authors cover the various materials used by civil and construction engineers in one useful reference, limiting the vast amount of information available to the introductory level, concentrating on current practices, and extracting information that is relevant to the general education of civil and construction engineers. A large number of experiments, figures, sample problems, test methods, and homework problems gives students opportunity for practice and review.

This book introduces the reader to the foundational principles and theories that underpin the delivery of value to clients and users of built infrastructure. In doing so, the book introduces the reader to the foundational principles and theories that have influenced the way we now understand Lean Construction and has provided very useful insights to students, practitioners and researchers on key junctures over the last 25 years. Highlighting the key contemporary developments and using global case study material the chapters demonstrate good practice but also help introduce new thinking to both lay readers and experienced practitioners alike. This book is essential reading for undergraduate and postgraduate students, researchers and practitioners with an interest in Lean Construction and construction management, providing a general understanding of the area, current state of the art knowledge as well as providing an insight into areas for future research.

ICMLG2013 Proceedings of the International Conference on Management, Leadership and Governance- 2013 Value and Waste in Lean Construction-Fidelis A. Emuze 2015-11-06 Non-value adding activities are otherwise known as ‘waste’ in the lean construction lexicon. The aim of this collection is to build a common understanding of the role and contribution of value-adding activities in achieving stipulated objectives and continuous improvement in construction projects, and to contrast this with waste. Although the lean approach to construction projects has been widely covered, this is the first book that explicitly provides the link between value and waste in the Architecture, Engineering and Construction (AEC) sector. This internationally researched collection seeks to create a paradigm shift, which will shape work processes and future directions for how value is conceptualized and operationalized in both the project management and business aspects of construction. The readers will gain an understanding of: The value-adding paradigm in construction How to make value-supporting decisions Waste identification and control in practice With contributions from South Africa, Brazil, Norway, and the USA, the implications of this book are globally relevant. This is essential reading for all higher level students of construction management and economics, and all professionals interested in value management.

Introduction to Geotechnical Engineering-Braja M. Das 2015-01-01 Written in a concise, easy-to understand manner, INTRODUCTION TO GEOTECHNICAL ENGINEERING, 2e, presents intensive research and observation in the field and lab that have improved the science of foundation design. Now providing both U.S. and SI units, this non-calculus-based text is designed for courses in civil engineering technology programs where soil mechanics and foundation engineering are combined into one course. It is also a useful reference tool for civil engineering practitioners. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Structural Concrete-M. Nadim Hassoun 2012-05-01 Emphasizing a conceptual understanding of concrete design and analysis, this revised and updated edition builds the student’s understanding by presenting design methods in an easy to understand manner supported with the use of
numerous examples and problems. Written in intuitive, easy-to-understand language, it includes SI unit examples in all chapters, equivalent conversion factors from US customary to SI throughout the book, and SI unit design tables. In addition, the coverage has been completely updated to reflect the latest ACI 318–11 code.

Degradation of Implant Materials-Noam Eliaz 2012-08-21 This book reviews the current understanding of the mechanical, chemical and biological processes that are responsible for the degradation of a variety of implant materials. All 18 chapters will be written by internationally renowned experts to address both fundamental and practical aspects of research into the field. Different failure mechanisms such as corrosion, fatigue, and wear will be reviewed, together with experimental techniques for monitoring them, either in vitro or in vivo. Procedures for implant retrieval and analysis will be presented. A variety of biomaterials (stainless steels, titanium and its alloys, nitinol, magnesium alloys, polyethylene, biodegradable polymers, silicone gel, hydrogels, calcium phosphates) and medical devices (orthopedic and dental implants, stents, heart valves, breast implants) will be analyzed in detail. The book will serve as a broad reference source for graduate students and researchers studying biomedicine, corrosion, surface science, and electrochemistry.

Investigating the Role of Bats in Emerging Zoonoses-Scott H. Newman 2011 Capacity development is one of the pillars through which the Food and Agriculture Organisation of the United Nations supports member countries. This manual serves as a resource for better understanding the ecology of bats, their natural history, their role in providing ecosystem services, techniques used for monitoring populations, and for the detection, identification and monitoring of viruses naturally circulating in bats and that can have significant implication if they are transmitted to people either through direct contact, or indirectly, through livestock. This manual will engage professionals from multiple disciplines ranging from public health and veterinary medicine to natural resource managers and biologists, but most importantly, highlights the need to understand the anthropogenic drivers resulting in disease transmission from bats to people.

Journal of Management in Engineering- 1985

ARCHITECTURAL DRAFTING AND DESIGN, 6E is the classic text for all architectural drafters and CAD operators, whether beginning, intermediate, or advanced. This full-color, comprehensive edition provides the basics of residential design, using various types of projects that a designer or architect is likely to complete during the actual design process and is written to meet the most recent editions of IRC and IBC. This book begins with information on architectural styles that have dominated the field over the last four centuries, followed by basic design components related to the site and structure. Commercial drafting, basic materials used for construction, common construction methods and drawings typically associated with commercial construction are all covered. An important feature of this best-seller is its step-by-step instructions for the design and layout of each type of drawing associated with a complete set of architectural plans, with projects that can be completed using either CAD or manual drawing methods. Readers will gain the knowledge needed to complete the drawings required by most municipalities to obtain a building permit for a single-family residence. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.