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Inspection is one of the most important elements of construction and contract administration. Good engineering design and properly prepared plans and specifications are essential for a quality end product. However, ensuring that specifications and drawings are adhered to depends largely on the COR/CI/FI. This is especially true of

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Introductory technical guidance for electrical engineers, mechanical engineers, civil engineers and construction managers interested in cathodic protection engineering. Here is what is discussed: 1. FACTORS TO CONSIDER 2. PLANNING OF CONSTRUCTION 3. PIPELINE COATING 4. COATINGS FOR OTHER STRUCTURES 5. PIPELINE INSTALLATION 6. ELECTRICAL CONNECTIONS 7. TEST STATIONS 8. SACRIFICIAL ANODE INSTALLATION 9. IMPRESSED CURRENT ANODE INSTALLATION 10. IMPRESSED CURRENT RECTIFIER INSTALLATION 11. SYSTEM CHECKOUT AND INITIAL ADJUSTMENTS 12. MAINTAINING CATHODIC PROTECTION SYSTEMS.

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Introductory technical guidance for civil engineers, structural engineers and construction managers interested in inspection, maintenance and repair of bridges. Here is what is discussed: 1. CONCRETE BEAMS AND GIRDERS 2. STEEL BEAMS AND GIRDERS 3. PIN AND HANGER CONNECTIONS 4. FLOOR SYSTEMS 5. DIAPHRAGMS AND CROSS FRAMES 6. TRUSSES 7. LATERAL BRACING PORTALS AND SWAY FRAMES 8. TIED ARCHES 9. METAL BEARINGS 10. ELASTOMERIC BEARINGS 11. DECKS 12. EXPANSION JOINTS 13. RAILINGS, SIDEWALKS, AND CURBS 14. APPROACHES 15. BRIDGE DRAINAGE.

In addition to quality control (QC), this book introduces the concept of quality assurance (QA). Quality assurance has a number of definitions, but in general is the combination of the quality assurance plan with procedures through which the quality control inspector can inspect in the field. The book is arranged in categories so that it can be used in handbook fashion; each section stands independent of the others. The arrangement of the major portion of the book is organized in the same format as we usually find in building construction specification, the Construction Specifications Institute (CSI) format.

Organising and administering a construction site so that the right resources get to the right place in a timely fashion demands strong leadership and a rigorous process. Good logistical operations are essential to profitability, and this book is the essential, muddy boots guide to efficient site management. Written by experienced educator-practitioners from the world-leading Building Construction Management programme at Purdue University, this volume is the ultimate guide to the knowledge, skills, and abilities that need to be mastered by project superintendents. Observations about leadership imperatives and techniques are included. Organisationally, the book follows site-related activities from bidding to project closeout. Beyond outlining broad project managerial practices, the authors drill into operational issues such as temporary soils and drainage structures, common equipment, and logistics. The content is primarily geared for the manager of a domestic or small commercial building construction project, but includes some reference to public and international work, where techniques, practices, and decision making can be substantially different. The book is structured into five sections and fifteen chapters. This facilitates ready adaptation either to industry training seminars or to university courses: Section I. The Project and Site Pre-Planning: The Construction Project and Site Environment (Randy Rapp); Due Diligence (Robert Cox); Site Organization and Layout (James O'Connor). Section II. The Site and Field Engineering Issues: Building Layout (Douglas Keith); Soil and Drainage Issues (Yi Jiang and Randy Rapp). Section III. Site Logistics: Site Logistical Procedures and Administration (Daphne Koch); Earthmoving (Douglas Keith); Material Handling Equipment (Bryan Hubbard). Section IV. Leadership and Control: Leadership and Communication (Bradley Benhart); Health, Safety, Environment (HSE), and Security (Jeffrey Lew); Project Scheduling (James Jenkins); Project Site Controls (Joseph Orczyk); Inspection and QA/QC (James Jenkins). Section V. Planning for Completion: Site-Related Contract Claims (Joseph Orczyk); Project Closeout (Randy Rapp).

Preparedness and rigorous planning on community, state, and regional levels are critical to containing the threat of pandemic illness. Steeped in research and recommendations from lessons learned, Pandemic Planning describes the processes necessary for the efficient and effective preparation, prevention, response, and recovery from a pandemic throa

The scope of disasters ranges from man-made emergency to natural calamity, from a kitchen grease fire to a hurricane or volcanic eruption. While each type of event requires a very different scale and type of immediate response, the project management challenges that face restoration and reconstruction professionals after the emergency phase is complete are remarkably similar. Using decades of real-world experience and academic research, the author explains pertinent requirements and methods for the contractors and other professionals who bring order from chaos. This is the first systematic presentation of the tools and skills needed for disaster recovery project management. It is designed primarily for contractors, although it will also be of value for those who might hire them, the communities they serve, and their organizational partners in the disaster recovery effort. The volume is focused on informing the management of projects that recover the built environment after emergency conditions are sufficiently stabilized, and supplements and complements books devoted to conventional construction or emergency relief management.

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NEC Managing Reality is a series of manuals written by NEC experts well versed in using the NEC 'at the coalface

This new textbook fills an important gap in the existing literature, in that it prepares construction engineering and built environment students for their first experience of the jobsite. This innovative book integrates conceptual and hands-on knowledge of project engineering to introduce students to the construction process and familiarize them with the procedures and activities they need to operate as project engineers during their summer internships and immediately after graduation. The textbook is structured into four sections: Section A: Introductory Concepts Section B: Field Engineering Section C: Office Engineering Section D: Advanced Project Engineering The emphasis on field tasks and case studies, questions, and exercises taken from across civil works and commercial building sectors makes this the ideal textbook for introductory to intermediate courses in Construction Engineering, Construction Engineering Technology, Civil and Architectural Engineering, and Construction Management degree programs.

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