

no adverse changes to the finished product. The magnetic thickness measurement method is usually the test that is used to determine the thickness of the zinc coating.

Where metallizing is required, the procedures and facilities should be in accordance with the coating supplier's recommendations and acceptable to both the fabricator and purchaser. The metallized coating should be inspected for thickness by a magnetic thickness gauge. Also, an adherence test may be made by cutting through the coating with a knife. Bond is considered unsatisfactory if any part of the coating lifts away from the base metal 0.25 in. (6.35 mm) ahead of the cutting blade.

Where bare weathering steel is specified, the need for blast cleaning the steel should be decided and agreed on by the purchaser and fabricator. Blast cleaning is desirable if a clean and uniformly weathered appearance is important in the structure's first years of exposure. In time, even a oxidant-cleaned steel structure develops a uniform oxide coating.

8.3 ALUMINUM STRUCTURES

Many of the requirements, procedures, testing, and handling associated with steel structures are also applicable to aluminum structures.

8.3.1 Material

The purchaser should review and agree on the fabricator's material specifications, supply sources, material identification, storage, traceability procedures, and certified mill test reports.

8.3.2 Welding

Quality control for welded connections is most critical. Accordingly, care in the welding of these joints should be the highest priority. Welding specifications, preparation, procedures, and welder qualifications and inspection should be in accordance with the Aluminum Association (1991) and AWS D1.2/D1.2M (2003).

8.3.3 Fabrication

The fabricator should follow the guidelines listed below:

- Shearing, sawing, and arc cutting are acceptable methods of cutting. Flame cutting is not acceptable.
- Holes may be punched if the taper of the hole does not exceed a diametric difference of 0.03125 in. (0.80 mm). Otherwise, subpunching or reaming or drilling is required.

- All forming and bending should be carried out cold, unless indicated on the shop drawings or specially approved by the design engineer.

8.3.4 Inspection

At a minimum, visual inspection of all welded joints is necessary. An additional testing of welded joints, if required, should be agreed on by the purchaser and fabricator.

8.3.5 Structure Coating

Aluminum structures are normally supplied with a standard mill finish (i.e., not painted or deglared). If the structures are to be provided deglared, the purchaser and fabricator should resolve the type of treatment allowable gloss, and other requirements. Aluminum structures are non-oxidizing, except in extremely corrosive conditions or if in contact with dissimilar materials, such as steel. If required, painting should be performed in accordance with the paint manufacturer's recommendations.

8.4 CONCRETE STRUCTURES

For concrete poles, the material should satisfy the requirements as specified by ASCE (1987), Section 3.8 and Chapter 6.0.

8.4.1 Reinforced Concrete

For typical concrete structures, concrete proportion and mix design should satisfy the durability requirements as specified in Chapter 4 of ACI 318 (2005). Reinforced concrete structures should also comply with ACI 318 (2005) Section 7.7 for the minimum concrete cover requirements and Chapter 5 for quality and placement criteria.

Under special conditions where corrosion of reinforcement bars is possible, a cathodic protection or protective epoxy coating is recommended to ensure the long-term integrity of the concrete elements.

8.4.2 Prestressed Concrete

For prestressed concrete structures, the material should satisfy the requirements as specified by PCI MNL-116 (1999).

Asce Manual 4

Peipei Pang



Asce Manual 4:

Modern Protective Structures Theodor Krauthammer,2008-02-01 In today s world reasonably predictable military operations have been replaced by low intensity conflicts less predictable terrorist activities carried out by determined individuals or small groups that possess a wide range of backgrounds and capabilities Because of the threats posed by this evolving type of warfare civil engineers and emergency personnel face new challenges in designing facilities to protect lives and property and in conducting effective rescue operations and forensic investigations Addressing these needs Modern Protective Structures develops realistic guidelines for the analysis design assessment retrofit and research of protected facilities After introducing a comprehensive risk management approach the author provides a general background on explosive devices and their capabilities as well as explosive effects and the processes that generate them He then discusses the effects of conventional and nuclear explosions The book subsequently considers the significant design differences between conventional and nuclear loads and between existing design procedures and state of the art information from recent research It also summarizes existing blast resistant design approaches and describes the dynamic responses of structural systems to blasts shocks and impacts Additional coverage includes the behavior of specific structural connections the traditional concept of P I diagrams and progressive collapse The book concludes with a systematic and balanced protective design approach Tackling the analytical design assessment and hazard mitigation issues associated with short duration dynamic loads this book examines how impulsive loads affect various types of buildings and facilities It provides the necessary material to help ensure the safety of persons assets and projects

NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures , Design of Reinforced Concrete Shells and Folded Plates VARGHESE, P. C.,2010 **Modeling of coal gasification for fuel cell utilization** M. L. Finson,United States. Department of Energy. Division of Fossil Fuel Utilization,1978 This report summarizes recent progress on a DOE supported program to construct computer models for potential future combined coal gasification fuel cell power generation systems The approach is to develop physically well founded descriptions for the performance of both molten carbonate fuel cells and coal gasifiers and to utilize the models to prepare performance maps for each device enabling selection of the optimum interfaces between fuel cells and gasifiers In a previous phase of the study we identified entrained flow gasification as the most appropriate type for providing fuel cell feed gas on the basis of off gas composition and the ability to handle a wide range of coal types Accordingly a substantial portion of the current effort is concerned with the development of a computer model for entrained flow gasifiers Furthermore several scaling laws have been developed for fuel cell performance Mostly based on equilibrium open circuit considerations to date these address such issues as the requirements for avoiding carbon deposition the potential effects of methane conversion and the distribution of heat sources and sinks within the cell

Engineering for Extremes Mark G. Stewart,David V. Rosowsky,2021-12-16 The volume explains how risk and decision

making analytics can be applied to the wicked problem of protecting infrastructure and society from extreme events There is increasing research that takes into account the risks associated with the timing and severity of extreme events in engineering to reduce the vulnerability or increase the resiliency of infrastructure Engineering for extremes is defined as measures taken to reduce the vulnerability or increase the resiliency of built infrastructure to climate change hurricanes storms floods earthquakes heat waves fires and malevolent and abnormal events that include terrorism gas explosions vehicle impact and vehicle overload The book introduces the key concepts needed to assess the economic and social well being risks costs and benefits of infrastructure to extreme events This includes hazard modelling likelihood and severity infrastructure vulnerability resilience or exposure likelihood and extent of damage social and economic loss models risk reduction from protective measures and decision theory cost benefit and utility analyses Case studies authored by experts from around the world describe the practical aspects of risk assessment when deciding on the most cost efficient measures to reduce infrastructure vulnerability to extreme events for housing buildings bridges roads tunnels pipelines and electricity infrastructure in the developed and developing worlds *Hydroinformatics Tools for Planning, Design, Operation and Rehabilitation of Sewer Systems* J. Marsalek, Cedo Maksimovic, Evzen Zeman, Roland Price, 2013-04-17 Hydroinformatics systems are systems that combine computational hydraulic modelling with information systems including knowledge based systems They are gaining rapid acceptance in the areas of environmental planning design and management The present book focuses exclusively on sewage systems starting with their planning and then going on to discuss their design operation and rehabilitation The very experienced authors discuss business and information needs in the management of urban drainage tools for collecting and archiving such data and their use in modelling catchment hydrology sewer systems hydraulics wastewater quality wastewater treatment plant operation and receiving waters The control and operation of sewer systems in real time is described followed by a discussion of their maintenance and rehabilitation Intelligent decision support systems for managing the urban drainage business process are presented Audience Researchers into sewer design municipal engineers planners and managers interested in an innovative approach to all aspects of the planning design and operation of sewer systems Methods Systemization Manual Hydrologic Engineering Center (U.S.), 1967 Performance-Based Contracts for Road Projects Ashish Gajurel, 2013-08-30 This book focuses on the aspects of contracting contracts basically related to road construction and management contracts The book presents an analytical study of Performance Based Road Management and Maintenance PMMR Funktionsbauvertrag FBV Function Based Construction Contract and Public Private Partnerships PPP A separate chapter is also included about the comparative study of these contract types The book provides useful material for university libraries construction companies and government departments of construction Capital and Operating Cost Estimating System Manual for Mining and Beneficiation of Metallic and Nonmetallic Minerals Except Fossil Fuels in the United States and Canada George K. Clement, 1980 *ASCE Manuals and Reports on Engineering Practice*

,1999 Construction Inspection Handbook James J. O'Brien,2012-12-06 Since the publication of the third edition in 1989 changes in quality control assurance have affected the construction industry This new fourth edition includes revised and new material relating to Section A specifically Total Quality Management ISO 9000 and quality control The Codes and Standards Section Contract Documents and Legal Documents Sections have also been extensively updated Construction Inspection Handbook systematically reinstates the importance of quality by providing you with a comprehensive quality assurance plan At the same time this ensures that your construction projects meet contract specifications comply with Construction Specification Institute standards and conform with safety requirements and legal codes

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