
CHAPTER 8

CONCRETE STRUCTURES AND FOUNDATIONS¹

FOREWORD

The material in this chapter is written with regard to typical North American Railroad Concrete Structures and Foundations and other structures mentioned herein with:

- Standard Gage Track,
- Normal North American passenger and freight equipment, and
- Speeds of freight trains up to 80 mph and passenger trains up to 90 mph.

Additional special provisions for speeds higher than those listed above may be added by the Engineer as necessary.

This chapter is presented as a consensus document by a committee composed of railroad industry professionals having substantial and broad-based experience designing, evaluating, and investigating Concrete Structures and Foundations used by railroads. The recommendations contained herein are based upon past successful usage, advances in the state of knowledge, and current design and maintenance practices. These recommendations are intended for routine use and might not provide sufficient criteria for infrequently encountered conditions. Professional judgement must be exercised when applying the recommendations of this chapter as part of an overall solution to any particular issue.

This chapter is published annually, incorporating revisions made in the previous year. The latest published edition of the chapter should be used, regardless of the age of an existing structure. For purposes of determining historical recommendations under which an existing structure may have been built and maintained, it can prove useful to examine previous editions of the chapter. However, when historical recommendations differ from the recommendations contained in the latest published edition of the chapter, the recommendations of the latest published edition of the chapter should be used.

Part 8, Rigid Frame Concrete Bridges was deleted from the manual in 1975. Part 9, Reinforced Concrete Trestles was deleted from the manual in 1971. Part 15 is reserved for future use. Part 18, Elastomeric Bridge Bearings was moved to Chapter 15 in 2001.

¹ The material in this and other chapters in the AREMA *Manual for Railway Engineering* is published as recommended practice to railroads and others concerned with the engineering, design and construction of railroad fixed properties (except signals and communications), and allied services and facilities. For the purpose of this Manual, RECOMMENDED PRACTICE is defined as a material, device, design, plan, specification, principle or practice recommended to the railroads for use as required, either exactly as presented or with such modifications as may be necessary or desirable to meet the needs of individual railroads, but in either event, with a view to promoting efficiency and economy in the location, construction, operation or maintenance of railroads. It is not intended to imply that other practices may not be equally acceptable.

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Bridge Engineering Handbook Wai-Fah Chen, Lian Duan, 2014-01-24 Over 140 experts 14 countries and 89 chapters are represented in the second edition of The Bridge Engineering Handbook This extensive collection highlights bridge engineering specimens from around the world contains detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject *Bridge Engineering Handbook, Second Edition* Wai-Fah Chen, Lian Duan, 2014-01-24 Over 140 experts 14 countries and 89 chapters are represented in the second edition of The Bridge Engineering Handbook This extensive collection highlights bridge engineering specimens from around the world contains detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject Published in five books Fundamentals Superstructure Design Substructure Design Seismic Design and Construction and Maintenance this new edition provides numerous worked out examples that give readers step by step design procedures includes contributions by leading experts from around the world in their respective areas of bridge engineering contains 26 completely new chapters and updates most other chapters It offers design concepts specifications and practice as well as the various types of bridges The text includes over 2 500 tables charts illustrations and photos The book covers new innovative and traditional methods and practices explores rehabilitation retrofit and maintenance and examines seismic design and building materials The first book Fundamentals contains 22 chapters and covers aesthetics planning design specifications structural modeling fatigue and fracture What's New in the Second Edition Covers the basic concepts theory and special topics of bridge engineering Includes seven new chapters Finite Element Method High Speed Railway Bridges Concrete Design Steel Design Structural Performance Indicators for Bridges High Performance Steel and Design and Damage Evaluation Methods for Reinforced Concrete Beams under Impact Loading Provides substantial updates to existing chapters including Conceptual Design Bridge Aesthetics Achieving Structural Art in Bridge Design and Application of Fiber Reinforced Polymers in Bridges This text is an ideal reference for practicing bridge engineers and consultants design construction maintenance and can also be used as a reference for students in bridge engineering courses

SP-66(04): ACI Detailing Manual-2004 , **Bridge Engineering** Mr. Rohit Manglik, 2024-07-08 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *An Introduction to Design of Railroads for Professional Engineers* J. Paul Guyer, P.E., R.A., 2022-08-19 Introductory technical guidance for professional engineers and construction managers interested in design and construction of railroads Here is what is discussed 1 ROADWAY DESIGN 2 GRADES AND TRACK PROFILE 3 HORIZONTAL CURVES 4 CLEARANCES 5 TRACK STRUCTURE 6 TRACK DESIGN METHODS 7 AREMA DESIGN PROCEDURE 1995 MODIFIED 8 SUBGRADE 9 FROST DESIGN MODIFICATIONS 10

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Facilities Development Manual Wisconsin. Department of Transportation, 1979 **Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures** George Deodatis, Bruce R. Ellingwood, Dan M. Frangopol, 2014-02-10 Safety Reliability Risk and Life Cycle Performance of Structures and Infrastructures contains the plenary lectures and papers presented at the 11th International Conference on STRUCTURAL SAFETY AND RELIABILITY ICOSAR2013 New York NY USA 16 20 June 2013 This set of a book of abstracts and searchable full paper USB device is must have literature for researchers and practitioners involved with safety reliability risk and life cycle performance of structures and infrastructures **Bridge Engineering Handbook, Five Volume Set** Wai-Fah Chen, Lian Duan, 2014-01-24 Over 140 experts 14 countries and 89 chapters are represented in the second edition of the Bridge Engineering Handbook This extensive collection provides detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject and also highlights bridges from around the world This second edition of the bestselling Bridge Engineering Handbook covers virtually all the information an engineer would need to know about any type of bridge from planning to construction to maintenance It contains more than 2 500 tables charts and illustrations in a practical ready to use format An abundance of worked out examples gives readers numerous practical step by step design procedures Special attention is given to rehabilitation retrofit and maintenance Coverage also includes seismic design and building materials Thoroughly revised and updated this second edition contains 26 new chapters Hydro-Environmental Analysis James L. Martin, 2013-12-04 Focusing on fundamental principles Hydro Environmental Analysis Freshwater Environments presents in depth information about freshwater environments and how they are influenced by regulation It

provides a holistic approach exploring the factors that impact water quality and quantity and the regulations policy and management methods that are necessary to maintain this vital resource It offers a historical viewpoint as well as an overview and foundation of the physical chemical and biological characteristics affecting the management of freshwater environments The book concentrates on broad and general concepts providing an interdisciplinary foundation The author covers the methods of measurement and classification chemical physical and biological characteristics indicators of ecological health and management and restoration He also considers common indicators of environmental health characteristics and operations of regulatory control structures applicable laws and regulations and restoration methods The text delves into rivers and streams in the first half and lakes and reservoirs in the second half Each section centers on the characteristics of those systems and methods of classification and then moves on to discuss the physical chemical and biological characteristics of each In the section on lakes and reservoirs it examines the characteristics and operations of regulatory structures and presents the methods commonly used to assess the environmental health or integrity of these water bodies It also introduces considerations for restoration and presents two unique aquatic environments wetlands and reservoir tailwaters Written from an engineering perspective the book is an ideal introduction to the aquatic and limnological sciences for students of environmental science as well as students of environmental engineering It also serves as a reference for engineers and scientists involved in the management regulation or restoration of freshwater environments

Track Design Handbook for Light Rail Transit, 2012 TCRP report 155 provides guidelines and descriptions for the design of various common types of light rail transit LRT track The track structure types include ballasted track direct fixation ballastless track and embedded track The report considers the characteristics and interfaces of vehicle wheels and rail tracks and wheel gauges rail sections alignments speeds and track moduli The report includes chapters on vehicles alignment track structures track components special track work aerial structures bridges corrosion control noise and vibration signals traction power and the integration of LRT track into urban streets

Track-related Research, 2004 Concrete International, 2000 *ACI Manual of Concrete Practice*, 2005 3rd fib Congress Washington USA FIB - International Federation for Structural Concrete, 2010-06-01 Southwest Gulf Railroad Company Construction and Operation Exemption Medina County, Texas, 2008 *Experimental Vibration Analysis for Civil Structures* Joel P. Conte, Rodrigo Astroza, Gianmario Benzoni, Glauco Feltrin, Kenneth J. Loh, Babak Moaveni, 2017-10-11 This edited volume presents selected contributions from the International Conference on Experimental Vibration Analysis of Civil Engineering Structures held in San Diego California in 2017 EVACES2017 The event brought together engineers scientists researchers and practitioners providing a forum for discussing and disseminating the latest developments and achievements in all major aspects of dynamic testing for civil engineering structures including instrumentation sources of excitation data analysis system identification monitoring and condition assessment in situ and laboratory experiments codes and standards and vibration mitigation

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