
CHAPTER 7

TIMBER STRUCTURES¹

FOREWORD

The material in this chapter is written with regard to typical North American Railroad Timber Trestles and other timber structures mentioned herein with

- Spans up to 16 feet,
- 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.

Special provisions for longer spans and/or higher train speeds should be added by the company as necessary.

This chapter is presented as a consensus document by a committee that comprises railroad engineers, engineers in private practice, engineers involved in research and teaching, and other industry professionals having substantial and broad-based experience designing, evaluating, and investigating timber structures used by railroads. The recommendations contained herein are based upon past successful usage and are periodically updated to ensure future successful usage. Therefore, as an ongoing concern, the recommendations printed herein are updated in response to changes in the operating environment, changes in the designations and availability of material and material systems, advances in design and maintenance practices, and advances in the state of knowledge overall. These recommendations have been developed and 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 problem.

In general, this chapter is revised and printed anew on a calendar-year basis. The latest printed revision 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 printed editions of the chapter. However, when historical recommendations differ from the

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 railways for use as required, either exactly as presented or with such modifications as may be necessary or desirable to meet the needs of individual railways, but in either event, with a view to promoting efficiency and economy in the location, construction, operation or maintenance of railways. It is not intended to imply that other practices may not be equally acceptable.

Arema Chapter 7

Tao Wei



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detailed descriptions of today's design methods Structural Engineering Handbook Fifth Edition covers Computer applications in structural engineering Earthquake engineering Fatigue brittle fracture and lamellar tearing Soil mechanics and foundations Design of steel structural and composite members Plastic design of steel frames Design of cold formed steel structural members Design of aluminum structural members Design of reinforced and prestressed concrete structural members Masonry construction and timber structures Arches and rigid frames Bridges and girder boxes Building design and considerations Industrial and tall buildings Thin shell concrete structures Special structures and nonbuilding structures

Design and Construction of Modern Steel Railway Bridges John F. Unsworth, 2017-08-03 This new edition encompasses current design methods used for steel railway bridges in both SI and Imperial US Customary units It discusses the planning of railway bridges and the appropriate types of bridges based on planning considerations *Theory and Design of Railway Truss Bridges* John F. Unsworth, 2025-06-17 Railroad bridges are a critical component of the infrastructure and economy of many countries and many of these bridges are nearing the end of their useful service life Theory and Design of Railway Truss Bridges provides comprehensive coupled information regarding the structural analysis and design of steel railway truss spans Most books cover either analysis or design of structures but none cover both the analysis and design of railway trusses Further the book presents technical information on the analysis of railway trusses currently unavailable in other modern books It also provides readers with up to date information concerning the modern methods of design recommended by the American Railway Engineering and Maintenance of Way Association AREMA Includes detailed information on the analysis of trusses for moving loads Presents information on topics specific to railway trusses such as loading effects secondary stresses and stress reversal Includes information on the history of railway truss analysis design and construction Covers methods for the analysis of statically indeterminate spans Describes methods to determine the displacement of truss spans Provides up to date theory and design methods based on current AREMA recommendations

Feasibility of Rehabilitating Timber Bridges with Mechanically Fastened Fiber Reinforced Polymer (MF-FRP) Strips Alyssa E. Schorer, 2008 **Movable Bridge Design** Charles Birnstiel, Bill Bowden, George Foerster, William Bowden, 2015-06-16 Against the background of worldwide development this book provides a fascinating and comprehensive guide of both past and current approaches to the design of a wide range of movable bridges **Track Design Handbook for Light Rail Transit** Parsons, Brinckerhoff, Quade & Douglas, 2000 The Handbook provides guidelines and descriptions for the design of various types of light rail transit track The track structure types covered include ballasted direct fixation ballastless and embedded track The components of the various track types are discussed in detail The guidelines consider the characteristics and interfaces of vehicle wheels and rail track and wheel gauges rail sections alignments speeds and track moduli Support Motion Effects in a Timber Trestle Bridge, 2006 Structural Steel Designer's Handbook Roger Brockenbrough, Frederick Merritt, 2005-11-16 Mirroring the latest developments in materials methods codes and standards in

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