

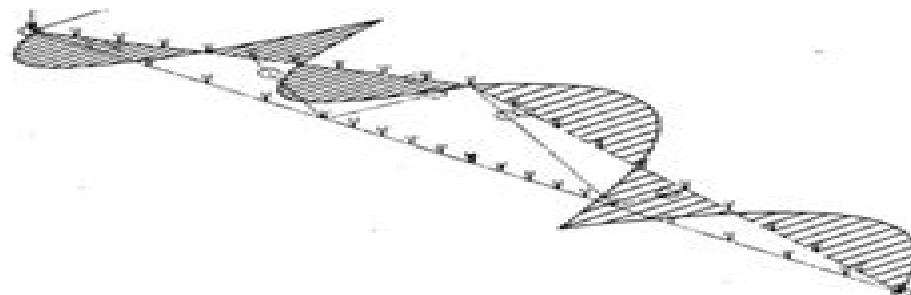


US Army Corps  
of Engineers  
Construction Engineering  
Research Laboratories

USACERL Technical Report 98-89  
July 1998

# Structural Evaluation Procedures for Heavy Wood Truss Structures

by  
Mohsen A. Issa  
Ghassan Al-Chaar



Army Regulation 420-70, *Buildings and Structures*, requires the inspection of trusses, roof framing, and other structural items every 2 to 5 years. In some cases, detailed evaluations of heavy wood structures are needed as subsequent steps of inspection to check structural integrity under design loads specified by current building codes. An evaluation procedure for wood structures differs from conventional methods used in steel, concrete, and masonry structures because, in wood construction, the allowable stresses used in design may not represent the actual strength of members in existing structures.

This study documented comprehensive procedures for the structural evaluation of heavy wood truss structures and identified commercially available nondestructive tests that can be used to determine the mechanical properties of existing members. Also investigated were issues related to modeling of wood structures necessary to create models that can reproduce the behavior of the prototypes.

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# Evaluation Maintenance And Upgrading Of Wood Structures A Guide And Commentary

**The United States Department of  
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## **Evaluation Maintenance And Upgrading Of Wood Structures A Guide And Commentary:**

Evaluation, Maintenance and Upgrading of Wood Structures Alan D'Yarmett Freas, 1982-01-01 Prepared by the Subcommittee on Evaluation Maintenance and Upgrading of Timber Structures of the Committee on Wood of the Structural Division of ASCE This report presents information on technical aspects of inspection evaluation reinforcement repair and rehabilitation of timber structures Any structure regardless of the material from which it is made may be subject to a review of its ability to perform a specific function or functions This report reviews factors that influence the serviceability of wood structures including loadings duration of loads temperature moisture and weathering Effects of chemicals and fire as well as insects fungi and other organisms that attack wood are also covered Designing to avoid problems caused by these factors is discussed Inspection techniques and equipment are described along with guidelines on where to look and what to look for A section of evaluation of wood structures includes criteria such as structural analysis determination of loads and estimating load carrying capacity **Research for Tomorrow's Forests**, 1984 *Forest Service Research Accomplishments*, 1981

**NEHRP Commentary on the Guidelines for the Seismic Rehabilitation of Buildings** Eugene Zeller, 2000-06 This document from the National Earthquake Hazards Reduction Program NEHRP was prepared for the Building Seismic Safety Council BSSC with funding from the Federal Emergency Management Agency FEMA It provides commentary on the NEHRP Guidelines for the Seismic Rehabilitation of Buildings It contains systematic guidance enabling design professionals to formulate effective reliable rehabilitation approaches that will limit the expected earthquake damage to a specified range for a specified level of ground shaking This kind of guidance applicable to all types of existing buildings in all parts of the country has never existed before Illustrated **Structural Design in Wood** Judith Stalnaker, Ernest Harris, 2014-07-08 The prime purpose of this book is to serve as a design is of considerable value in helping the classroom text for the engineering or architect student make the transition from the often sim ture student It will however also be useful to plistic classroom exercises to problems of the designers who are already familiar with design real world Problems for solution by the student in other materials steel concrete masonry but follow the same idea The first problems in each need to strengthen refresh or update their capa subject are the usual textbook type problems bility to do structural design in wood Design but in most chapters these are followed by prob principles for various structural materials are lems requiring the student to make structural similar but there are significant differences planning decisions as well The student may be This book shows what they are required given a load source to find the magni The book has features that the authors believe tude of the applied loads and decide upon a set it apart from other books on wood structural grade of wood Given a floor plan the student design One of these is an abundance of solved may be required to determine a layout of struc examples Another is its treatment of loads This tural members The authors have used most of book will show how actual member loads are the problems in their classes so the problems computed The authors have found that students have been tested *Improved Forest and Range*

*Land Productivity Through Research* ,1983      **Dividends from Wood Research** ,1983      Guidelines to Restoring Structural Integrity of Covered Bridge Members Ronald W. Anthony,2018-04-02 These guidelines are designed for decision makers selection country commissioners city planners preservation officers contractors rehabilitation engineers etc to understand the components that are used to make effective decisions about how and when to repair a covered bridge such as structural integrity engineering analyses condition assessments how to support the bridge during repairs and more There are numerous types of covered bridges and ensuring public safety during repairs is a paramount issue for future generations to enjoy Related products Find more Renovation Historic Preservation resources here <https://bookstore.gpo.gov/catalog/renovation-historic-preservation> Bridges Tunnels resources collection here <https://bookstore.gpo.gov/catalog/bridges-tunnels> Other products published by the U S Forest Service are available here <https://bookstore.gpo.gov/agency/us-forest-service>

List of Publications Forest Products Laboratory (U.S.),1973      *Reinforcement of Timber Elements in Existing Structures* Jorge Branco,Philipp Dietsch,Thomas Tannert,2021-04-30 By presenting the work of the RILEM Technical Committee 245 RTE the book provides an overview of the existing techniques for the reinforcement of timber elements joints and structures It consists of two parts part I examines state of the art information on reinforcement techniques summarizes the current status of standardization and covers STS GiR FRP and nanotechnology In part II several applications of reinforcement are discussed these include traditional structures traditional timber frame walls light frame shear walls roofs floors and carpentry joints The book will benefit academics practitioners industry and standardization committees interested in the reinforcement of existing timber elements joints and structures      *Coastal Construction Manual* ,2000      *Coastal Construction Manual, Principles and Practices of Planning, Siting, Designing, Constructing, and Maintaining Residential Buildings in Coastal Areas, Volume II: Determining Site-Specific Loads, Etc., June 2000* ,2000      **Coastal Construction Manual, Volume II: Principles and Practices of Planning, Siting, Designing, Constructing, and Maintaining Buildings in Coastal Areas** ,      **Coastal Construction Manual, Vol. 2, Principles and Practices of Planning, Siting, Designing, Constructing, and Maintaining Buildings in Coastal Areas, Edition 3, August 2005** ,2009      **Coastal Construction Manual, Vol. 1, Principles and Practices of Planning, Siting, Designing, Constructing, and Maintaining Buildings in Coastal Areas, Edition 3, August 2005** ,2009      Long-term Performance and Durability of Masonry Structures Bahman Ghiassi,Paulo B. Lourenco,2018-11-27 Long Term Performance and Durability of Masonry Structures Degradation Mechanisms Health Monitoring and Service Life Design focuses on the long term performance of masonry and historical structures The book covers a wide range of related topics including degradation mechanisms in different masonry types structural health monitoring techniques and long term performance and service life design approaches Each chapter reflects recent findings and the state of the art providing practical guidelines Key topics covered include the theoretical background transport properties testing and modeling protective measures and standards and codes

The book's focus is on individual construction materials the composite system and structural performance Covers all issues related to durability including degradation mechanisms testing and design monitoring and service life design Focuses on different masonry construction types Presents a one stop reference for advanced postgraduate courses that focuses on the durability of masonry and historical constructions      **Wood and Timber Condition Assessment Manual** Robert J. Ross, Robert H. White, 2004      *The Encyclopedia of Wood* The United States Department of Agriculture, 2011-02-11 Timber is one of our most precious versatile and vulnerable resources so using it effectively is important Knowing your material inside and out is the first step to doing just that Read about the structure of wood itself from growth rings to its chemical composition Learn wood's physical and mechanical properties including everything from elasticity to nuclear radiation This extensive manual includes a section on stress grading as well as thorough descriptions of which fasteners to use and when It has information on adhesive bonding biodeterioration control of moisture content preservation fire safety specialty treatments and much more The Encyclopedia of Wood is an essential resource for builders architects engineers and woodworkers      Wood Handbook , 1999      **Classic Wood Structures** American Society of Civil Engineers. Task Committee on Classic Wood Structures, 1989 Wood has been used in a wide range of structural applications When properly maintained these structures can have a useful life from 50 years to several centuries This publication presents both the history and design of these various structures and describes structures such as Tacoma Dome and the Air Force Trestle

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experience as teachers shows us that a high