

Timber Floor Case Study

John S. Oakland, Marton Marosszky

Solid Wood Joseph Mayo, 2015-10-05 Over the past 10-15 years a renaissance in wood architecture has occurred with the development of new wood building systems and design strategies, elevating wood from a predominantly single-family residential idiom to a rival of concrete and steel construction for a variety of building types, including high rises. This new solid wood architecture offers unparalleled environmental as well as construction and aesthetic benefits, and is of growing importance for professionals and academics involved in green design. Solid Wood provides the first detailed book which allows readers to understand new mass timber/massive wood architecture. It provides: historical context in wood architecture from around the world a strong environmental rationale for the use of wood in buildings recent developments in contemporary fire safety and structural issues insights into building code challenges detailed case studies of new large-scale wood building systems on a country-by-country basis. Case studies from the UK, Norway, Sweden, Germany, Austria, Italy, Canada, the United States, New Zealand and Australia highlight design strategies, construction details and unique cultural attitudes in wood design. The case studies include the most ambitious academic, hospitality, industrial, multi-family, and wood office buildings in the world. With discussions from leading architectural, engineering, and material manufacturing firms in Europe, North America and the South Pacific, Solid Wood disrupts preconceived notions and serves as an indispensable guide to twenty-first century wood architecture and its environmental and cultural benefits.

Raised Wood Floors, 2010

Parametrically-Informed Early-Design Guidance for Mass Timber Floors for Embodied Carbon and Structural Design Samantha Leonard, 2023 Within the last decade, mass timber structures are gaining traction in the U.S. commercial construction market for a variety of reasons, including their prefabrication capabilities, low embodied carbon contribution (EC), ability to expose the timber for aesthetics, and their potential to reduce construction schedules and site work. Of these, the low material EC of timber structural elements can contribute to projects' sustainability goals while industry seeks to reduce energy use in construction and buildings. Because modern mass timber structures are relatively new, there is limited design guidance at the intersection of EC and structural design to guide practitioners' early-stage design decision-making. Therefore, the goal of this research is to fill in design guidance gaps for mass timber structures by answering questions about trends in EC and structural design, comparisons to baseline concrete floors, the impact of prescriptive fire design options,

designing for acoustic insulation beyond code, and key design guidance for mass timber. To fill in the gap and address these questions, this research focuses on mass timber and hybrid mass timber floor systems. A parametric model was developed for five floor systems, all of which have cross laminated timber (CLT) floors. Two systems have glue-laminated timber (Glulam) framing, one with and one without infill beams. Two systems have steel W-shape non-composite framing, again one with and one without infill beams. The final is a timber-concrete composite floor system with steel shear connectors. The parametric model varied floor geometry, the number of infill beams, the prescriptive fire design approach, and system type to generate a set of approximately 5,500 designs. The designs were automatically sized using the smallest structural elements meeting requirements for flexure, shear, fire design, deflections, and control of walking-induced vibrations. The models assumed code minimum acoustic insulation; however, improved acoustic assembly options were catalogued and studied for their impacts on structural depth, mass, EC, and acoustic insulation metrics including sound transmission class (STC) and impact isolation class (IIC). The parametric modeling output for each design included minimum element sizes, system depth, material takeoffs, system mass, and EC. The results were used to study the impacts of design variables on performance metrics including depth, mass, and EC. Using the findings of this analysis, design recommendations were developed to inform early-design decision-making. Some key results and recommendations are summarized here. If reducing EC and mass is a main priority, consider sourcing the most sustainable timber available, avoid designs which are overly deep, avoid a steel hybrid system with infill beams, and limit designs to a maximum of a single infill beam where applicable and possible. If reducing depth is a main priority, select a steel-hybrid system to take advantage of steel's greater spanning capabilities, select a bay aspect ratio of 1.0 or greater so the steel girders are spanning the short direction, and design for small bay sizes less than 20 feet. When designing for fire, plan to select a minimum 5-ply panel for the combined fire design configuration for a 2-hr FRR with 40 minutes of char and 80 minutes of noncombustible protection. Plan to select a minimum 7-ply panel for the exposed fire design configuration for a 2-hr FRR with 2 hours of char. Due to the nature of parametric modeling to inform early design, there are limitations to this research to facilitate a clear analysis and understanding of the model results and trends. Connections informed boundary assumptions but were not modeled, the focus was on gravity loads only, systems were modeled at the scale of a single bay, loads assumed residential occupancy or similar loads, a single mid-range wood grade was assumed in structural calculations, fire design is based on prescriptive and conservative design procedures, and design for the control of walking-induced vibrations uses simplified procedures. Despite these limitations, model verification based on real case study projects found that the model produced realistic sizing results, and is considered valid for the scope and goals of this research. Future work that will come directly out of this dissertation includes the development of an interactive web-based tool and accompanying design guide based on the design guidance and recommendations for mass timber floor system design within this research. The industry would additionally benefit from further research related to this topic,

including similar parametric studies of lateral systems, full-scale building analysis, studies into cost and scheduling, parametric studies of the contribution of connections, and research on the optimization of carbon storage versus building height, envelope area, and operational energy.

The Case for Tall Wood Buildings Michael Green,2017-02-06 This book describes a new structural system in wood that represents the first significant challenge to concrete and steel structures since their inception in tall building design more than a century ago. The introduction of these ideas is driven by the need to find safe, carbon-neutral and sustainable alternatives to the incumbent structural materials of the urban world. The potential market for these ideas is quite simply enormous. The proposed solutions have the potential to revolutionize the building industry, address the major challenges of climate change, urbanization, and sustainable development and to significantly contribute to world housing needs.

Structural Analysis of Historical Constructions Rafael Aguilar, Daniel Torrealva, Susana Moreira, Miguel A. Pando, Luis F. Ramos,2018-08-18 This volume contains the proceedings of the 11th International Conference on Structural Analysis of Historical Constructions (SAHC) that was held in Cusco, Peru in 2018. It disseminates recent advances in the areas related to the structural analysis of historical and archaeological constructions. The challenges faced in this field show that accuracy and robustness of results rely heavily on an interdisciplinary approach, where different areas of expertise from managers, practitioners, and scientists work together. Bearing this in mind, SAHC 2018 stimulated discussion on the new knowledge developed in the different disciplines involved in analysis, conservation, retrofit, and management of existing constructions. This book is organized according to the following topics: assessment and intervention of archaeological heritage, history of construction and building technology, advances in inspection and NDT, innovations in field and laboratory testing applied to historical construction and heritage, new technologies and techniques, risk and vulnerability assessments of heritage for multiple types of hazards, repair, strengthening, and retrofit of historical structures, numerical modeling and structural analysis, structural health monitoring, durability and sustainability, management and conservation strategies for heritage structures, and interdisciplinary projects and case studies. This volume holds particular interest for all the community interested in the challenging task of preserving existing constructions, enable great opportunities, and also uncover new challenges in the field of structural analysis of historical and archeological constructions.

Structure for Architects Ashwani Bedi, Ramsey Dabby,2019-07-31 Structure for Architects: A Case Study in Steel, Wood, and Reinforced Concrete Design is a sequel to the authors' first text, Structure for Architects: A Primer, emphasizing the conceptual understanding of structural design in simple language and terms. This book focuses on structural principles applied to the design of typical structural members—a beam, a girder, and a column—in a diagrammatic frame building. Through the application of a single Case Study across three key materials, the book illustrates the theory, principles, and process of structural design. The Case Study progresses step-by-step for each material, from determining tributary areas and

loads through a member's selection and design. The book addresses the frequent disparity between the way architects and engineers perceive and process information, with engineers focusing on technical aspects and architects focusing on visual concepts. *Structure for Architects: A Case Study in Steel, Wood, and Reinforced Concrete Design* presents readers with an understanding of fundamental engineering principles through a uniquely thematic Case Study. Focusing on the conceptual understanding of structural design, this book will be of interest to architecture students and professionals looking to understand the application of structural principles in relation to steel, wood, and concrete design.

Seismic Analysis and Retrofitting of Historical Buildings Antonio Formisano, Michele D'amato, 2020-10-29 This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Historical Earthquake-Resistant Timber Framing in the Mediterranean Area Helena Cruz, José Saporiti Machado, Alfredo Campos Costa, Paulo Xavier Candeias, Nicola Ruggieri, José Manuel Catarino, 2016-08-29 This book presents a selection of the best papers from the HEaRT 2015 conference, held in Lisbon, Portugal, which provided a valuable forum for engineers and architects, researchers and educators to exchange views and findings concerning the technological history, construction features and seismic behavior of historical timber-framed walls in the Mediterranean countries. The topics covered are wide ranging and include historical aspects and examples of the use of timber-framed construction systems in response to earthquakes, such as the gaiola system in Portugal and the Bourbon system in southern Italy; interpretation of the response of timber-framed walls to seismic actions based on calculations and experimental tests; assessment of the effectiveness of repair and strengthening techniques, e.g., using aramid fiber wires or sheets; and modelling analyses. In addition, on the basis of case studies, a methodology is presented that is applicable to diagnosis, strengthening and improvement of seismic performance and is compatible with modern theoretical principles and conservation criteria. It is hoped that, by contributing to the knowledge of this construction technique, the book will help to promote conservation of this important component of Europe's architectural heritage.

Structural Rehabilitation of Old Buildings Aníbal Costa, João Miranda Guedes, Humberto Varum, 2013-09-11 This present book describes the different construction systems and structural materials and elements within the main buildings typologies, and it analyses the particularities of each of them, including, at the end, general aspects concerning laboratory and in-situ testing, numerical modeling, vulnerability assessment and construction maintenance.

Structural Analysis of Historical Constructions Yohei Endo, Toshikazu Hanazato, 2023-09-03 This book gathers the peer-reviewed papers presented at the 13th International Conference on Structural Analysis of Historical Constructions (SAHC), held in Kyoto, Japan, on September 12-15, 2023. It highlights the latest advances and innovations in the field of conservation and restoration of historical and heritage structures. The conference topics encompass history of construction and building technology, theory and practice of conservation, inspection methods, non-destructive techniques and laboratory testing, numerical modeling and structural analysis, management of heritage structures and conservation strategies, structural health monitoring, repair and strengthening strategies and techniques, vernacular constructions, seismic analysis and retrofit, vulnerability and risk analysis, resilience of historic areas to climate change and hazard events, durability, and sustainability. As such the book represents an invaluable, up-to-the-minute tool, providing an essential overview of conservation of historical constructions, and offers an important platform to engineers, architects, archeologists, and geophysicists. Chapter Guidelines for Seismic Retrofitting of Earthen Historic Buildings in Peru and Latin America is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Tall Wood Buildings Michael Green, Jim Taggart, 2017-01-11 Tall Wood buildings' have been at the foreground of innovative building practice for a number of years. From London to Stockholm, from Vancouver to Melbourne timber buildings of up to 20 storeys have been built or designed. This publication explains the typical construction types and documents an international selection of 13 case studies with many specially prepared construction drawings, demonstrating the range of the technology.

Stopping the Slide Eric Hansen, Robert Smith, 2001

Structural Analysis of Historical Constructions - 2 Volume Set Claudio Modena, P.B. Lourenço, P. Roca, 2004-11-15 Structural Analysis of Historical Constructions contains about 160 papers that were presented at the IV International Seminar on Structural Analysis of Historical Constructions that was held from 10 to 13 November, 2004 in Padova Italy. Following publications of previous seminars that were organized in Barcelona, Spain (1995 and 1998) and Guimarães, Portugal (2001), state-of-the-art information is presented in these two volumes on the preservation, protection, and restoration of historical constructions, both comprising monumental structures and complete city centers. These two proceedings volumes are devoted to the possibilities of numerical and experimental techniques in the maintenance of historical structures. In this respect, the papers, originating from over 30 countries, are subdivided in the following areas: Historical aspects and general methodology, Materials and laboratory testing, Non-destructive testing and inspection techniques, Dynamic behavior and structural monitoring, Analytical and numerical approaches, Consolidation and strengthening techniques, Historical timber and metal structures, Seismic analysis and vulnerability assessment, Seismic strengthening and innovative systems, Case studies. Structural Analysis of Historical Constructions is a valuable source of

information for scientists and practitioners working on structure-related issues of historical constructions

Total Construction Management John S. Oakland, Marton Marosszeky, 2017-02-17 A convergence of lean management and quality management thinking has taken place in organizations across many industries, including construction. Practices in procurement, design management and construction management are all evolving constantly and understanding these changes and how to react is essential to successful management. This book provides valuable insights for owners, designers and constructors in the construction sector. Starting by introducing the language of total quality, lean and operational excellence, this book takes the reader right up to the latest industry practice in this sector, and demonstrates the best way to manage change. Written by two of the world's leading experts, Total Construction Management: Lean quality in construction project delivery offers a clearly structured introduction to the most important management concepts and practices used in the global construction industry today. This authoritative book covers issues such as procurement, BIM, all forms of waste, construction safety, and design and construction management, all explained with international case studies. It is a perfect guide for managers in all parts of the industry, and ideal for those preparing to enter the industry.

100 Projects UK CLT Waugh Thistleton Architects, 2018 The benefits of cross-laminated timber (CLT) are clear: building in timber is quick, clean, and easy. It can be achieved with a measured accuracy and lack of noise, waste, or need for material storage space. This book is a study of the 100 of the most significant buildings constructed from CLT in the United Kingdom over the past 15 years. Authors Andrew Waugh and Anthony Thistleton of Waugh Thistleton Architects have contacted a wide range of individuals and businesses to interview them about their experiences building in CLT to help inform this book. -- Thinkwood.com.

Total Quality in the Construction Supply Chain John S. Oakland, Marton Marosszeky, 2006 This text tackles the key issues of total quality management, supply chain management and knowledge management, demonstrating their significance as strategic concepts for the construction sector and illustrating how development goals in each of these critical areas can be met.

Use of Timber in Tall Multi-Storey Buildings Ian Smith, Andrea Frangi, 2014-01-01 Since the dawn of civilization, timber has been a primary material for achieving great structural engineering feats. Yet during the late 19th century and most of the 20th century it lost currency as a preferred material for construction of large and tall multi-storey building superstructures. This Structural Engineering Document (SED) addresses a reawakening of interest in timber and timber-based products as primary construction materials for relatively tall, multi-storey buildings. Emphasis throughout is on holistically addressing various aspects of performance of complete systems, reflecting that major gaps in knowhow relate to design concepts rather than technical information about timber as a material. Special consideration is given to structural form, fire vulnerability, and durability aspects for attaining desired building performance over lifespans that can be centuries

long.

Integrative Approach to Comprehensive Building Renovations Vesna Žegarac Leskovar, Miroslav Premrov, 2019-03-18 This book presents a new approach to building renovation, combining aspects of various professional disciplines, integrating green building design, structural stability, and energy efficiency. It draws attention to several often-overlooked qualities of buildings that should be comprehensively integrated into the context of building renovation. The book presents an overview of the most important renovation approaches according to their scope, intensity, and priorities. Combining basic theoretical knowledge and the authors' scientific research it emphasizes the importance of simultaneous consideration of energy efficiency and structural stability in building renovation processes. It simultaneously analyses the effects of various renovation steps related to the required level of energy efficiency, while it also proposes the options of building extension with timber-glass upgrade modules as the solution to a shortage of usable floor areas occurring in large cities. This book offers building designers and decision makers a tool for predicting energy savings in building renovation processes and provides useful guidelines for architects, city developers and students studying architecture and civil engineering. Additionally, it demonstrates how specific innovations, e.g., building extensions with timber-glass modules, can assist building industry companies in the planning and development of their future production. The main aim of the current book is to expose various approaches to the renovation of existing buildings and to combine practical experience with existing research, in order to disseminate knowledge and raise awareness on the importance of integrative and interdisciplinary solutions.

Proactive-reactive, robust scheduling and capacity planning of deconstruction projects under uncertainty Volk, Rebekka, 2017-02-08 A project planning and decision support model is developed and applied to identify and reduce risk and uncertainty in deconstruction project planning. It allows calculating building inventories based on sensor information and construction standards and it computes robust project plans for different scenarios with multiple modes, constrained renewable resources and locations. A reactive and flexible planning element is proposed in the case of schedule infeasibility during project execution.

Dating Buildings and Landscapes with Tree-Ring Analysis Darrin L. Rubino, Christopher Baas, 2019-05-13 This book presents guidance, theory, methodologies, and case studies for analyzing tree rings to accurately date and interpret historic buildings and landscapes. Written by two long-time practitioners in the field of dendrochronology, the research is grounded in the fieldwork data of approximately 200 structures and landscapes. By scientifically analyzing the tree rings of historic timbers, preservationists can obtain valuable information about construction dates, interpret the evolution of landscapes and buildings over time, identify species and provenance, and gain insight into the species matrix of local forests. Authors Darrin L. Rubino and Christopher Baas demonstrate, through full-color illustrated case studies and methodologies, how this

information can be used to interpret the history of buildings and landscapes and assist preservation decision-making. Over 1,000 samples obtained from more than 40 buildings, including high style houses, vernacular log houses, and timber frame barns, are reported. This book will be particularly relevant for students, instructors, and professional readers interested in historic preservation, cultural landscapes, museum studies, archaeology, and dendrochronology globally.

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