

Compression perpendicular to grain (bearing)

$$F_{c\perp u} = F_{c\perp} (K_F) = 565 \text{ psi} (2.083) = 1177 \text{ psi} = 1.177 \text{ ksi}$$

$$F_{c\perp u}^* = F_{c\perp u} (\Phi_c)(\lambda) = 1.177 \text{ ksi} (0.9)(0.8) = 0.847 \text{ ksi}$$

Compression parallel to grain

$$F_{cu} = F_c (K_F) = 1800 \text{ psi} (2.4) = 4320 \text{ psi} = 4.32 \text{ ksi}$$

$$F_{cu}^* = F_{cu} (\Phi_c)(\lambda) = 4.32 \text{ ksi} (0.9)(0.8) = 3.11 \text{ ksi}$$

$$P_u^* = F_{cu}^* (A) = 3.11 \text{ ksi} (39.38 \text{ in}^2) = 122 \text{ k}$$

*Note that  $C_F$  would also apply for column buckling of an axially loaded member.*

Modulus of Elasticity

$$E^* = E = 1,800,000 \text{ psi} = 1800 \text{ ksi}$$

$$E_{min-u} = E_{min} (K_F) = 660,000 \text{ psi} (1.765) = 1,165,000 \text{ psi} = 1165 \text{ ksi}$$

$$E_{min-u}^* = E_{min-u} (\Phi_s) = 1165 \text{ ksi} (0.85) = 990 \text{ ksi}$$

- c. **2 x 10 purlins at 4 ft o.c.; 1.2D + 1.6L<sub>r</sub> load combination ( $\lambda = 0.8$ )**

$C_F$  is already incorporated in NDS Table 4B values; other factors equal to unity

$$A = 13.88 \text{ in}^2; S_x = 21.39 \text{ in}^3$$

Bending moment

$$F_{bu} = F_b (K_F) = 2050 \text{ psi} (2.54) = 5207 \text{ psi} = 5.21 \text{ ksi}$$

$$F_{bu}^* = F_{bu} (\Phi_b)(\lambda) = 5.21 \text{ ksi} (0.85)(0.8) = 3.54 \text{ ksi}$$

$$M_u^* = F_{bu}^* (S_x) = 3.54 \text{ ksi} (21.39 \text{ in}^3) = 75.8 \text{ k-in.}$$

Tension

$$F_{tu} = F_t (K_F) = 1100 \text{ psi} (2.7) = 2970 \text{ psi} = 2.97 \text{ ksi}$$

$$F_{tu}^* = F_{tu} (\Phi_t)(\lambda) = 2.97 \text{ ksi} (0.8)(0.8) = 1.90 \text{ ksi}$$

$$T_u^* = F_{tu}^* (A) = 1.90 \text{ ksi} (13.88 \text{ in}^2) = 26.4 \text{ k}$$

Flexural Shear

$$F_{vu} = F_v (K_F) = 175 \text{ psi} (2.88) = 504 \text{ psi} = 0.504 \text{ ksi}$$

$$F_{vu}^* = F_{vu} (\Phi_v)(\lambda) = 0.504 \text{ ksi} (0.75)(0.8) = 0.302 \text{ ksi}$$

$$V_u^* = F_{vu}^* (2/3)(A) = 0.302 \text{ ksi} (2/3)(13.88 \text{ in}^2) = 2.8 \text{ k}$$

Compression perpendicular to grain (bearing)

$$F_{c\perp u} = F_{c\perp} (K_F) = 565 \text{ psi} (2.083) = 1177 \text{ psi} = 1.177 \text{ ksi}$$

$$F_{c\perp u}^* = F_{c\perp u} (\Phi_c)(\lambda) = 1.177 \text{ ksi} (0.9)(0.8) = 0.847 \text{ ksi}$$

Compression parallel to grain

$$F_{cu} = F_c (K_F) = 1850 \text{ psi} (2.4) = 4440 \text{ psi} = 4.44 \text{ ksi}$$

$$F_{cu}^* = F_{cu} (\Phi_c)(\lambda) = 4.44 \text{ ksi} (0.9)(0.8) = 3.20 \text{ ksi}$$

$$P_u^* = F_{cu}^* (A) = 3.20 \text{ ksi} (13.88 \text{ in}^2) = 44.4 \text{ k}$$

*Note that  $C_F$  would also apply for column buckling of an axially loaded member.*

Modulus of Elasticity

$$E^* = E = 1,800,000 \text{ psi} = 1800 \text{ ksi}$$

$$E_{min-u} = E_{min} (K_F) = 660,000 \text{ psi} (1.765) = 1,165,000 \text{ psi} = 1165 \text{ ksi}$$

$$E_{min-u}^* = E_{min-u} (\Phi_s) = 1165 \text{ ksi} (0.85) = 990 \text{ ksi}$$

# Design Of Wood Structures 6th Edition Solutions Manual

**M Lipman**



## **Design Of Wood Structures 6th Edition Solutions Manual:**

*Solutions Manual* Donald E. Breyer, Kenneth Fridley, Kelley Cobeen, 1998      *ASD*, 1999      **Structural Wood Design**  
Abi Aghayere, Jason Vigil, 2017-04-28 This text provides a concise and practical guide to timber design using both the Allowable Stress Design and the Load and Resistance Factor Design methods. It suits students in civil structural and construction engineering programs as well as engineering technology and architecture programs and also serves as a valuable resource for the practicing engineer. The examples based on real world design problems reflect a holistic view of the design process that better equip the reader for timber design in practice. This new edition now includes the LRFD method with some design examples using LRFD for joists girders and axially load members. It is based on the 2015 NDS and 2015 IBC model code. It includes a more in depth discussion of framing and framing systems commonly used in practice such as metal plate connected trusses rafter and collar tie framing and pre engineered framing. It includes sample drawings drawing notes and specifications that might typically be used in practice. It includes updated floor joist span charts that are more practical and are easy to use. It includes a chapter on practical considerations covering topics like flitch beams wood poles used for footings reinforcement of existing structures and historical data on wood properties. It includes a section on long span and high rise wood structures. It includes an enhanced student design project.      The Analysis of Irregular Shaped Structures Diaphragms and Shear Walls Terry R. Malone, Robert W. Rice, 2011-12-05 A Complete Guide to Solving Lateral Load Path Problems. The Analysis of Irregular Shaped Structures Diaphragms and Shear Walls explains how to calculate the forces to be transferred across multiple discontinuities and reflect the design requirements on construction documents. Step by step examples offer progressive coverage from basic to very advanced. Illustrations of load paths in complicated structures. The book is based on the 2009 International Building Code ASCE SEI 7-05 the 2005 Edition of the National Design Specification for Wood Construction and the 2008 Edition of the Special Design Provisions for Wind and Seismic SDPWS 08. COVERAGE INCLUDES Code sections and analysis Diaphragm basics Diaphragms with end horizontal offsets Diaphragms with intermediate offsets Diaphragms with openings Open front and cantilever diaphragms Diaphragms with vertical offsets Complex diaphragms with combined openings and offsets Standard shear walls Shear walls with openings Discontinuous shear walls Horizontally offset shear walls The portal frame Rigid moment resisting frame walls the frame method of analysis      **Engineering News-record**, 1903      *Building Physics of the Envelope* Ulrich Knaack, Eddie Koenders, 2018-05-07 Die Fassade ist die Schnittstelle des Gebäudes mit seiner Umwelt. Dort treffen bauphysikalische Parameter wie Wärme Feuchte Schall und Licht auf das Haus und wirken auf es ein. Alle diese Einflüsse bedürfen der Regulierung durch die Gebäudehülle um Behaglichkeit für den Nutzer und Funktionstauglichkeit der Architektur zu gewährleisten. Diese Einführung erläutert die wichtigsten Phänomene um dann den Bezug zur Baupraxis herzustellen. Welche Materialien reagieren in welcher Weise auf diese Faktoren? Wie gehen Fassadensystemen mit Wärme Feuchte Schall und Licht um? Das praxisorientierte Buch entstand aus der Zusammenarbeit

eines Architekten und eines Bauingenieurs beschreibt die wichtigsten Fassadenmaterialien und konstruktionen im Hinblick auf ihre bauphysikalische Performance **Wood Design & Building** ,2001 **Wood Design Focus** ,2005

**Contractor's Exam Book** John Gladstone,George Perpich,Sandra Wackman Perpich,1985 Choice ,1987 *Index and Directory of U.S. Industry Standards* ,1987 **Books in Print Supplement** ,2002 *Mechanics of Materials* Roy R. Craig, Jr.,Eric M. Taleff,2020-08-04 The fourth edition of Mechanics of Materials is an in depth yet accessible introduction to the behavior of solid materials under various stresses and strains Emphasizing the three key concepts of deformable body mechanics equilibrium material behavior and geometry of deformation this popular textbook covers the fundamental concepts of the subject while helping students strengthen their problem solving skills Throughout the text students are taught to apply an effective four step methodology to solve numerous example problems and understand the underlying principles of each application Focusing primarily on the behavior of solids under static loading conditions the text thoroughly prepares students for subsequent courses in solids and structures involving more complex engineering analyses and Computer Aided Engineering CAE The text provides ample fully solved practice problems real world engineering examples the equations that correspond to each concept chapter summaries procedure lists illustrations flow charts diagrams and more This updated edition includes new Python computer code examples problems and homework assignments that require only basic programming knowledge *Books in Print* ,1994 Scientific and Technical Books and Serials in Print ,1989

*Designing Timber Buildings* Fausto Sanna,2022-10-24 Over the last three decades timber architecture has seen a resurgence in popularity thanks to the level of innovation experimentation and environmental responsiveness it engenders Designing Timber Buildings offers a comprehensive overview of timber as a construction material in addition to practical design guidance A series of ten exemplary case studies of award winning timber building from around the world inform and inspire the design process Topics covered include the physical and mechanical properties of wood preservative treatments modified timber and engineered timber products environmental aspects of timber buildings and finally structural systems and constructional techniques including timber frame structural insulated panels and cross laminated timber This book is richly illustrated throughout with detailed drawings and photographs documenting projects from construction to completion

The Art of Classic Planning Nir Haim Buras,2020-01-28 An accomplished architect and urbanist goes back to the roots of what makes cities attractive and livable demonstrating how we can restore function and beauty to our urban spaces for the long term Nearly everything we treasure in the world s most beautiful cities was built over a century ago Cities like Prague Paris and Lisbon draw millions of visitors from around the world because of their exquisite architecture walkable neighborhoods and human scale Yet a great deal of the knowledge and practice behind successful city planning has been abandoned over the last hundred years not because of traffic population growth or other practical hurdles but because of ill considered theories emerging from Modernism and reactions to it The errors of urban design over the last century are too

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Charles E. Reynolds, James C. Steedman, Anthony J. Threlfall, 2007-08-07 This classic and essential work has been thoroughly revised and updated in line with the requirements of new codes and standards which have been introduced in recent years including the new Eurocode as well as up to date British Standards It provides a general introduction along with details of analysis and design of a wide range of structures and examination of design according to British and then European Codes Highly illustrated with numerous line diagrams tables and worked examples Reynolds's Reinforced Concrete Designer's Handbook is a unique resource providing comprehensive guidance that enables the engineer to analyze and design reinforced concrete buildings bridges retaining walls and containment structures Written for structural engineers contractors consulting engineers local and health authorities and utilities this is also excellent for civil and architecture departments in universities and FE colleges *Seismic and Wind Forces* Alan Williams, 2003

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