

STEEL BEAM AND COLUMN ANALYSIS / CODE CHECK

Stress Code Check Per AISC 9th Edition Manual (ASD)

For W, S, M, and HP Shapes

Job Name:		Subject:	
Job Number:		Originator:	Checker:

Input Data:

Member Size:

Select: **W12x30**

Member Loadings:

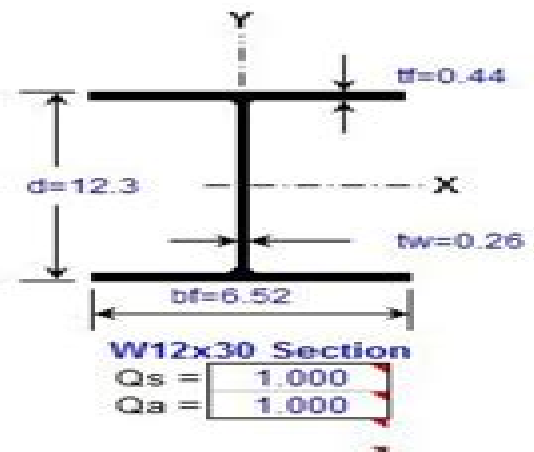
P = **10.00** kips
M_x = **25.00** ft-kips
M_y = **5.00** ft-kips

Design Parameters:

F_y = **36.00** ksi
K_x = **1.00**
K_y = **1.00**
L_x = **14.000** ft.
L_y = **14.000** ft.
L_b = **14.000** ft.
C_b = **1.00**
C_{mx} = **0.85**
C_{my} = **0.85**
ASIF = **1.000**

Member Properties:

A = **8.79** in.²
d = **12.300** in.
t_w = **0.260** in.
b_f = **6.520** in.
t_f = **0.440** in.
r_t = **1.730** in.
d/A_f = **4.30**
I_x = **238.00** in.⁴
S_x = **38.60** in.³
r_x = **5.210** in.
I_y = **20.30** in.⁴
S_y = **6.24** in.³
r_y = **1.520** in.
J = **0.46** in.⁴
C_w = **719.0** in.⁶



Results:

For Axial Compression:

K_x*L_x/r_x = **32.25**
K_y*L_y/r_y = **110.53**
C_c = **126.10**
f_a = **1.14** ksi
F_a = **11.60** ksi
P_a = **101.97** kips

For X-axis Bending:

L_c = **6.88** ft.
L_u = **10.77** ft.
L_b/r_t = **97.11**
f_{bx} = **7.77** ksi
F_{bx} = **16.61** ksi
M_{rx} = **53.43** ft-kips

For Y-axis Bending:

f_{by} = **9.62** ksi
F_{by} = **27.00** ksi
M_{ry} = **14.04** ft-kips

X-axis Euler Stress:

F_{ex} = **143.62** ksi

Y-axis Euler Stress:

F_{ey} = **12.22** ksi

Stress Ratio:

S.R. = **0.922** Eqn. H1-3

Comments:

Aisc Steel Manual Cheat Sheet

Pasquale De Marco



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PPI PE Structural Reference Manual, 10th Edition - Complete Review for the NCEES PE Structural Engineering (SE) Exam Alan Williams, 2021-09-21 The NCEES SE Exam is Open Book You Will Want to Bring This Book Into the Exam Alan Williams PE Structural Reference Manual Tenth Edition STRM10 offers a complete review for the NCEES 16 hour Structural Engineering SE exam This book is part of a comprehensive learning management system designed to help you pass the PE Structural exam the first time PE Structural Reference Manual Tenth Edition STRM10 features include Covers all exam topics and provides a comprehensive review of structural analysis and design methods New content covering design of slender and shear walls Covers all up to date codes for the October 2021 Exams Exam adopted codes and standards are frequently referenced and solving methods including strength design for timber and masonry are thoroughly explained 270 example problems Strengthen your problem solving skills by working the 52 end of book practice problems Each problem s complete solution lets you check your own solving approach Both ASD and LRFD SD solutions and explanations are provided for masonry problems allowing you to familiarize yourself with different problem solving methods Topics Covered Bridges Foundations and Retaining Structures Lateral Forces Wind and Seismic Prestressed Concrete Reinforced Concrete Reinforced Masonry Structural Steel Timber Referenced Codes and Standards Updated to October 2021 Exam Specifications AASHTO LRFD Bridge Design Specifications AASHTO Building Code Requirements and Specification for Masonry Structures TMS 402 602 Building Code Requirements for Structural Concrete ACI 318 International Building Code IBC Minimum Design Loads for Buildings and Other Structures ASCE 7 National Design Specification for Wood Construction ASD LRFD and National Design Specification Supplement Design Values for Wood Construction NDS North American Specification for the Design of Cold Formed Steel Structural Members AISI PCI Design Handbook Precast and Prestressed Concrete PCI Seismic Design Manual AISC 327 Special Design Provisions for Wind and Seismic with Commentary SDPWS Steel Construction Manual AISC 325 **Designing Steel Structures for Fire Safety** Jean Marc Franssen, Venkatesh Kodur, Raul Zaharia, 2009-05-06 Structural design in fire conditions is conceptually similar to structural design in normal temperature conditions but often more difficult because of internal forces induced by thermal expansion strength reduction due to elevated temperatures much larger deflections and numerous other factors Before making any design decisions it is esse **Recommended Seismic Design Criteria for New Steel Moment-frame Buildings** SAC Joint Venture. Guidelines Development Committee, 2000 *The Civil Engineering Handbook* W.F. Chen, J.Y. Richard Liew, 2002-08-29 Providing extensive coverage of all major areas of civil engineering the second edition of this award winning handbook features contributions from leading professionals and academicians and is packed with formulae data tables and definitions vignettes on topics of recent interest and additional sources of information It includes a wealth of material in areas such as coastal engineering polymeric materials computer methods shear stresses in beams and pavement performance evaluation

Its wide range of information makes it an essential resource for anyone working in civil structural or environmental engineering

The Wiley Engineer's Desk Reference Sanford I. Heisler, 1998-04-24 The Reference of Choice for Today's Engineer Revised expanded updated and ready to use Every engineer should have a copy of the bestselling Wiley Engineer's Desk Reference the ideal all in one resource for practical engineering applications and daily problem solving Now fully updated to address the latest developments in theory and practice this brand new Second Edition balances authoritative coverage of classical engineering topics with new material on state of the art subjects such as composites lasers automatic data collection and more No other book on the market covers the broad spectrum of engineering in as concise a fashion So whether you're looking for a specific piece of data or general background knowledge this conveniently sized ready reference puts the information you need right at your fingertips Contents include Mathematics Mechanics and materials Hydraulics Structures Thermodynamics Electricity and electronics Process control Statistics and economics Energy sources Engineering practice The design process Tables and reference data

Steel Structures Design: ASD/LRFD Alan Williams, 2011-02-07 A COMPLETE GUIDE TO THE DESIGN OF STEEL STRUCTURES Steel Structures Design ASD LRFD introduces the theoretical background and fundamental basis of steel design and covers the detailed design of members and their connections This in depth resource provides clear interpretations of the American Institute of Steel Construction AISC Specification for Structural Steel Buildings 2010 edition the American Society of Civil Engineers ASCE Minimum Design Loads for Buildings and Other Structures 2010 edition and the International Code Council ICC International Building Code 2012 edition The code requirements are illustrated with 170 design examples including concise step by step solutions Coverage includes Steel buildings and design criteria Design loads Behavior of steel structures under design loads Design of steel structures under design loads Design of steel beams in flexure Design of steel beams for shear and torsion Design of compression members Stability of frames Design by inelastic analysis Design of tension members Design of bolted and welded connections Plate girders Composite construction

PPI PE Civil Study Guide, 17th Edition Michael R. Lindeburg, 2022-09-30 Maximize your efficiency while studying for the PE Civil CBT exam by pairing the PE Civil Study Guide with Michael R Lindeburg's PE Civil Reference Manual PE Civil Study Guide Seventeenth Edition provides a strategic and targeted approach to exam preparation so that you gain a competitive edge With hundreds of entries containing helpful explanations derivations of equations and exam tips the Study Guide connects the NCEES exam specifications for all five PE Civil exams to the NCEES Handbook approved design standards and PPI's civil reference manuals The Study Guide is organized to make the most of your time and is an essential tool for a successful exam experience Relevant sections from the NCEES Handbook design standards and PPI's reference manuals are clearly indicated in both summary lists for each exam specification and in each of the detailed entries covering a specific concept or equation Referenced PPI Products PE Civil Reference Manual Structural Depth Reference Manual for the PE Civil Exam Construction Depth Reference Manual for the PE Civil Exam Transportation Depth

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Design of Highway Culverts FHWA LRFD Seismic Analysis Design of Transportation Geotechnical Features Structural
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Buildings Other Structures ASCE SEI 7 National Design Specification for Wood Construction AWC Occupational Safety
Health Regulations for the Construction Industry OSHA 1926 Occupational Safety Health Standards OSHA 1910 PCI Design
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AASHTO Soils Foundations Reference Manual Volume I II FHWA Steel Construction Manual AISC Structural Welding Code
Steel AWS

Steel Structures: Beyond the Beams Pasquale De Marco, Discover the fascinating world of steel structures in this comprehensive guide that goes beyond the beams to uncover the principles design considerations and construction techniques that make them possible From soaring skyscrapers to elegant bridges steel has shaped the modern world providing strength versatility and durability that have made it a preferred choice for engineers and architects alike In this book you will embark on a journey through the history of steel structures tracing their evolution from the early use of iron to the advent of steel as a construction material Explore the material properties of steel including its mechanical properties chemical composition and corrosion resistance and learn about heat treatment and strengthening methods to enhance its performance Delve into the world of load analysis and design criteria understanding the different types of loads on steel structures and the factors that influence the design process Gain insights into structural analysis and design methods for steel frames trusses columns and beams and discover the importance of design codes and standards in ensuring the safety and reliability of steel structures Learn about the fabrication and construction of steel structures from steel production and material handling to welding techniques and quality control Explore maintenance and rehabilitation techniques including inspection assessment repair and strengthening strategies and discover case studies of remarkable steel structure designs showcasing their unique challenges and innovative solutions Uncover the latest advances in steel structure technology including emerging trends the use of advanced materials computer aided design and modeling and the integration of building

information modeling BIM And finally explore the world of project management for steel structure projects from planning and scheduling to cost estimation risk management and effective collaboration Whether you are a student a practicing engineer or simply curious about the world of steel structures this book will equip you with the knowledge and insights needed to navigate this fascinating field So join us on this incredible journey where innovation meets strength and imagination shapes the future of steel structures Bridge Engineering, Third Edition Jim J. Zhao, Demetrios E.

Tonias, 2012-04-09 The state of the art in highway bridge engineering Fully updated with the latest codes and standards including load and resistance factor design LRFD Bridge Engineering Third Edition covers highway bridge planning design construction maintenance and rehabilitation This thoroughly revised reference contains cutting edge analytical design and construction practices the most current information on new materials and methods and proven cost effective maintenance and repair techniques Real world case studies and hundreds of helpful photos and illustrations are also included in this practical resource BRIDGE ENGINEERING THIRD EDITION FEATURES COMPLETE COVERAGE OF Highway bridge structures Project inception Project funding Design standards Bridge inspection and site survey Physical testing As built plans and other record data Superstructure types Deck types Wearing surface types Deck joint types Design loads Design methods Internal forces Load distribution Concrete deck slabs Composite steel members Plate girder design Continuous beams Protecting steel superstructures Load rating Prestressed concrete Substructure design Abutments Piers Bearings Managing the design process Contract documents Bridge management systems **Simplified Engineering for Architects and Builders** Sharon S. Baum Kuska, Patrick Tripeny, James Ambrose, 2025-01-29 The gold standard structural design reference completely revised and updated with an all new look Completely revised to reflect the latest standards and practices Simplified Engineering for Architects and Builders 13th Edition is the go to reference on structural design giving architects and contractors a concise introduction to the structures commonly used for typical buildings It presents primary concepts and calculations for the preliminary dimensioning of principal elements within a building design focused on key principles of quantitative analysis and design of structural members Structural design is an essential component of the architect's repertoire and engineering principles are at the foundation of every sound structure Architects need to understand the physics without excess math This book covers fundamental concepts like forces loading and reactions to teach how to estimate critical design loads and analyze for final proportions It provides exactly what you need to quickly grasp the concepts and determine the best solutions to difficult design challenges The thirteenth edition of Simplified Engineering for Architects and Builders includes Increased page size for improved visibility and usability Newly revised wood steel and concrete construction sections allow easy comparison of the latest techniques and materials Accompanying instructor manual with background discussion solutions to exercises additional study materials and self tests A leading reference for over 80 years Simplified Engineering for Architects and Builders is the definitive guide to practical structural

design ideal for students in architecture construction building technology and architectural engineering *The Structural Engineer's Professional Training Manual* Dave Adams,2007-10-24 The Business and Problem Solving Skills Needed for Success in Your Engineering Career The Structural Engineer s Professional Training Manual offers a solid foundation in the real world business and problem solving skills needed in the engineering workplace Filled with illustrations and practical punch list summaries this career building guide provides an introduction to the practice and business of structural and civil engineering including lots of detailed advice on developing competence and communicating ideas Comprehensive and easy to understand The Structural Engineer s Professional Training Manual features Recommendations for successfully training engineers who are new to the field Methods for bringing together ideas from a variety of sources to find workable solutions to difficult problems Information on the real world behaviors of building materials Guidance on licensing liability regulations and employment Techniques for responsibly estimating design time and cost Tips on communicating design ideas effectively Strategies for working successfully as part of a team Inside This Skills Building Engineering Resource The Dynamics of Training The World of Professional Engineering The Business of Structural Engineering Building Projects Bridge Projects Building Your Own Competence Communicating Your Designs Engineering Mechanics Soil Mechanics Understanding the Behavior of Concrete Understanding the Behavior of Masonry Construction Understanding the Behavior of Structural Steel Understanding the Behavior of Wood Framing **Principles of Structural Design** Ram S. Gupta,2014-04-22 A structural design book with a code connected focus Principles of Structural Design Wood Steel and Concrete Second Edition introduces the principles and practices of structural design This book covers the section properties design values reference tables and other design aids required to accomplish complete structural designs in accordance with the codes What s New in This Edition Reflects all the latest revised codes and standards The text material has been thoroughly reviewed and expanded including a new chapter on concrete design Suitable for combined design coursework in wood steel and concrete Includes all essential material the section properties design values reference tables and other design aids required to accomplish complete structural designs according to the codes This book uses the LRFD basis of design for all structures This updated edition has been expanded into 17 chapters and is divided into four parts The first section of the book explains load and resistance factor design and explores a unified approach to design The second section covers wood design and specifically examines wood structures It highlights sawn lumber glued laminated timber and structural composite veneer lumber The third section examines steel structures It addresses the AISC 2010 revisions to the sectional properties of certain structural elements as well as changes in the procedure to design the slip critical connection The final section includes a chapter on T beams and introduces doubly reinforced beams Principles of Structural Design Wood Steel and Concrete Second Edition was designed to be used for joint coursework in wood steel and concrete design **Structural Engineering** ,1980 PPI Structural Depth Reference Manual for the PE Civil Exam, Fifth Edition eText - 1 Year Alan Williams,2017-11-27

Comprehensive Coverage of the PE Civil Exam Structural Depth Section The Structural Depth Reference Manual for the PE Civil Exam prepares you for the structural depth section of the PE Civil exam It provides a concise yet comprehensive review of the structural depth section exam topics and highlights the most useful equations in the exam adopted codes and standards Solving methods including ASD and LRFD for steel strength design for concrete and ASD for timber and masonry are thoroughly explained Throughout the book cross references connect concepts and point you to additional relevant tables figures equations and codes More than 95 example problems demonstrate the application of concepts and equations Each chapter includes practice problems so you can solve exam like problems and step by step solutions allow you to check your solution approach A thorough index directs you to the codes and concepts you will need during the exam Topics Covered Design of Reinforced Masonry Design of Wood Structures Foundations Prestressed Concrete Design Reinforced Concrete Design Structural Steel Design Referenced Codes and Standards Building Code Requirements and Specifications for Masonry Structures and Companion Commentaries ACI 530 530 1 Building Code Requirements for Structural Concrete ACI 318 International Building Code IBC Minimum Design Loads for Buildings and Other Structures ASCE SEI7 National Design Specification for Wood Construction ASD LRFD NDS PCI Design Handbook Precast and Prestressed Concrete PCI Steel Construction Manual AISC Key Features A robust index to facilitate quick referencing during the PE Civil Exam Highlights the most useful equations in the exam adopted codes and standards Binding Paperback Publisher PPI A Kaplan Company

PPI PE Structural Bridges Practice Problems with Solutions - Practice Problems with Full Solutions for the NCEES PE Structural Engineering (SE) Exam David Micnhimer, 2021-08-18 David Micnhimer's PE Structural Bridges Practice Problems with Solutions STBR is a new book designed to help practice for Bridge questions on the PE Structural SE Exam This book is a comprehensive review of different types of bridge questions you can encounter on the breadth portion of the exam Features of this book 77 multiple choice questions to test your knowledge of bridge design Up to date with codes and references for the October 2021 PE Structural SE Exam Complete solutions show you step by step how to solve problems Quick Reference for the Civil Engineering PE Exam Michael R. Lindeburg, 2002 Of all the PE exams more people take the civil than any other discipline The eight hour open book multiple choice exam is given every April and October The exam format is breadth and depth all examinees are tested on the breadth of civil engineering in the morning session in the afternoon they select one of five specialties to be tested on in depth Our civil PE books are current with the exam they reflect the new format and they reference all the same codes used on the exam Quick Reference which facilitates finding formulas during the exam and subject specific reviews on the complex areas of bridge and timber design Organizes all important formulas for fast access during the exam Corresponds to topics in the Civil Engineering Reference Manual 8th ed **Handbook for Concrete and Cement** United States. Army. Corps of Engineers, 1994 Modern Steel Construction, 2009 **PPI Construction Depth Reference Manual for the Civil PE Exam eText - 1 Year** Thomas Korman, 2016-11-30 Construction

Depth Reference Manual prepares you for the construction depth section of the NCEES Civil PE exam All depth topics are covered and exam adopted codes and standards are frequently referenced You will learn how to apply concepts by reviewing the 40 example problems and you can check your solving approaches by reviewing each problem s step by step solution Access to supportive information is just as important as knowledge and problem solving efficiency The Construction Depth Reference Manual s thorough index easily directs you to the codes and concepts you will need during the exam Cross references to the 163 equations 38 tables 93 figures 5 appendices and relevant codes will point you to additional support material when you need it Topics Covered Construction Operations and Methods Earthwork Construction and Layout Estimating Quantity and Cost Material Quality Control and Production Scheduling Temporary Structures Worker Health and Safety

Materiality and Interior Construction Jim Postell, Nancy Gesimondo, 2011-06-15 A comprehensive reference of materials for interior designers and architects Choosing the right material for the right purpose is a critical and often overlooked aspect in the larger context of designing buildings and interior spaces When specified and executed properly materials support and enhance a project s overall theme and infuse interior space with a solid foundation that balances visual poetry and functionality Materiality and Interior Construction imparts essential knowledge on how materials contribute to the construction and fabrication of floors partitions ceilings and millwork with thorough coverage of the important characteristics and properties of building materials and finishes Individual coverage of the key characteristics of each material explores the advantages and disadvantages of using specific materials and construction assemblies while helping readers discover how to make every building element count In addition Materiality and Interior Construction Is highly illustrated throughout to show material properties and building assemblies Supplies rankings and information on the green attributes of each material so that designers can make informed decisions for specifications Is organized by application for easy and quick access to information Includes a companion website featuring an extensive online image bank of materials and assemblies Rather than a typical catalog of materials Materiality and Interior Construction is efficiently organized so that the reader is guided directly to the options for the location or assembly they are considering Reliable and easy to use Materiality and Interior Construction is a one stop comprehensive reference for hundreds of commonly used materials and their integration as building components and an invaluable resource that every interior designer or architect should add to their set of tools

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