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

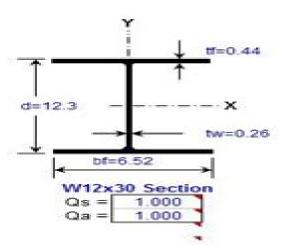
Member Loadings:

P =	10.00	kips
$M \times =$	25.00	ft-kips
My =	5.00	ft-kips

Design I

Fy = 36.00 ks Kx = 1.00 Ky = 1.00	
	a
Ky = 1 100	
Lx = 14.000 ft.	
Ly = 14.000 ft.	ŧ
Lb = 14.000 n.	
Cb = 1.00	
Cmx = 0.85	
Cmy = 0.85	
ASIF = 1.000	

mberr	roperues:	
A =	8.79	in.^2
d =	12.300	in.
twv =	0.260	in.
bf =	6.520	in.
tf =	0.440	in.
rt =	1.730	in.
d/Adf =	4.30	
lx =	238.00	in.^4
Sx =	38.60	in.^3
rx =	5.210	in.
ly =	20.30	In. 44
Sy =	6.24	in.^3
ry =	1.520	in.
J =	0.46	in.^4
Cw =	719.0	in.^6



Results:

For Axial Compression:

Kx*Lx/rx =	32.25	
Ky*Ly/ry =	110.53	
Cc =	126.10	
fa =	1.14	los-i
Fa =	11.60	losi.
Pa =	101.97	kips.

A 10 TO 10 T	csemenniq.	
Lc =	6.88	n.
Lu =	10.77	m.
Lb/rt =	97.11	1
fbx =	7.77	los-ii
Fbx =	16.61	KS-I
Mirx =	53.43	ft-kips

fby =	9.62	ksi
Fby =	27.00	ksi
Mry =	14.04	ft-kips

STATES IN THE STATE OF	or or coo.	
F'ex =	143.62 ksl	

Stress Ratio:

Comments:

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James R. Underwood, Michele Chiuini

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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 PPI PE Structural Bridges Practice Problems with Solutions - Practice Problems with Full Solutions for the NCEES PE Structural Engineering (SE) Exam David Michimer, 2021-08-18 David Michimer 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 PPI Structural Depth Reference Manual for the PE Civil Exam, Fifth Edition eText - 1 Year Alan how to solve problems 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

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Standards OSHA 1910 PCI Design Handbook Precast Prestressed Concrete PCI Recommended Standards for Wastewater Facilities TSS Roadside Design Guide AASHTO Soils Foundations Reference Manual Volume I II FHWA Steel Construction Manual AISC Structural Welding Code Steel AWS PPI PE Civil Practice Problems, 16th Edition eText - 1 Year Michael R. Lindeburg, 2019-03-01 PE Civil Practice Problems contains over 900 problems designed to reinforce your knowledge of the topics presented in the PE Civil Reference Manual Short six minute multiple choice problems follow the NCEES PE Civil exam problem format and focus on individual engineering concepts Longer more complex problems challenge your skills in identifying and applying related engineering concepts Problems will also familiarize you with the codes and standards you ll use on the exam Solutions are clearly written complete and easy to follow U S customary and SI units are equally supported and units are meticulously identified and carried through in all calculations All solution methodologies permitted by the NCEES PE Civil exam e g ASD and LRFD are presented Frequent references to figures tables equations and appendices in the PE Civil Reference Manual and the exam adopted codes and standards will direct you to relevant support material Topics Covered Civil Breadth Project Planning Means and Methods Soil Mechanics Structural Mechanics Hydraulics and Hydrology Geometrics Materials Site Development Construction Earthwork Construction and Layout Estimating Quantities and Costs Construction Operations and Methods Scheduling Material Quality Control and Production Temporary Structures Health and Safety Geotechnical Site Characterization Soil Mechanics Laboratory Testing and Analysis Field Materials Testing Methods and Safety Earthquake Engineering and Dynamic Loads Earth Structures Groundwater and Seepage Problematic Soil and Rock Conditions Earth Retaining Structures Shallow Foundations Deep Foundations Structural Analysis of Structures Design and Details of Structures Codes and Construction Transportation Traffic Engineering Horizontal Design Vertical Design Intersection Geometry Roadside and Cross Section Design Signal Design Traffic Control Design Geotechnical and Pavement Drainage Alternatives Analysis Water Resources and Environmental Analysis and Design Hydraulics Closed Conduit Hydraulics Open Channel Hydrology Groundwater and Wells Wastewater Collection and Treatment Water Quality Drinking Water Distribution and Treatment Engineering Economic Analysis Key Features Over 900 practice problems to help prepare you for the NCEES PE Civil Exam Frequent references to figures tables equations and appendices in the PE Civil Reference Manual Binding Paperback Publisher PPI A Kaplan Company Recommended Seismic Design Criteria for New Steel Moment-frame Buildings SAC Joint Venture. Guidelines Development Committee, 2000 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

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Huang, 2016-12-28 Targeted Training for Solving Civil PE Exam Construction Depth Multiple Choice Problems Six Minute Solutions for Civil PE Exam Construction Depth Problems contains over 100 multiple choice problems that are grouped into seven chapters that correspond to a topic on the PE Civil exam construction depth section Problems are representative of the exam's format scope of topics and level of difficulty Like the PE exam an average of six minutes is required to solve each problem in this book Each problem also includes a hint for optional problem solving guidance Comprehensive step by step solutions for all problems demonstrate accurate and efficient solving approaches Get your Construction Depth Reference Manual index at ppi2pass com downloads Topics Covered Construction Operations and Methods Earthwork Construction and Layout Estimating Quantities and Costs Health and Safety Material Quality Control and Production Scheduling Temporary Structures Key Features Increase familiarity with the exam problems format content and solution methods Connect relevant theory to exam like problems Quickly identify accurate problem solving approaches Organize the references you will use on exam day Binding Paperback Publisher PPI A Kaplan Company 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 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

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Structural Design James R. Underwood, Michele Chiuini, 2011-11-07 Written for the practicing architect Structural Design addresses the process on both a conceptual and a mathematical level Most importantly it helps architects work with structural consultants and understand all the necessary considerations when designing structural systems Using a minimum

of simple math this book shows you how to make correct design calculations for structures made from steel wood concrete and masonry What's more this edition has been completely updated to reflect the latest design methods and codes including LRFD for steel design The book was also re designed for easy navigation Essential principles as well as structural solutions are visually reinforced with hundreds of drawings photographs and other illustrations making this book truly architect 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 Bridge Engineering, Third Edition Jim Zhao, Demetrios Tonias, 2012-03-05 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

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