

 W18		<b>Table 6-1 (continued)</b> <b>Combined Flexure</b> <b>and Axial Force</b> <b>W-Shapes</b>												$F_y = 50$ ksi		
Shape		W18×														
		76 <sup>c</sup>				71				65						
		$P \times 10^3$ (kips) <sup>-1</sup>		$M_y \times 10^3$ (kip-ft) <sup>-1</sup>		$P \times 10^3$ (kips) <sup>-1</sup>		$M_y \times 10^3$ (kip-ft) <sup>-1</sup>		$P \times 10^3$ (kips) <sup>-1</sup>		$M_y \times 10^3$ (kip-ft) <sup>-1</sup>				
Design		ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	
Effective length, $KL$ (ft), with respect to least radius of gyration, $r_y$ , or Unbraced length, $L_b$ (ft), for X-X axis bending	0	1.52	1.01	2.19	1.45	1.60	1.06	2.44	1.62	1.75	1.16	2.68	1.78			
	6	1.59	1.06	2.19	1.45	1.82	1.21	2.44	1.62	2.00	1.33	2.68	1.78			
	7	1.62	1.08	2.19	1.45	1.91	1.27	2.51	1.67	2.09	1.39	2.76	1.84			
	8	1.66	1.10	2.19	1.45	2.02	1.34	2.59	1.72	2.21	1.47	2.85	1.90			
	9	1.70	1.13	2.19	1.45	2.15	1.43	2.67	1.78	2.36	1.57	2.95	1.96			
	10	1.75	1.16	2.22	1.48	2.30	1.53	2.76	1.83	2.53	1.68	3.05	2.03			
	11	1.81	1.20	2.27	1.51	2.48	1.65	2.85	1.90	2.73	1.82	3.15	2.10			
	12	1.87	1.24	2.32	1.54	2.70	1.80	2.95	1.96	2.97	1.98	3.27	2.18			
	13	1.94	1.29	2.37	1.58	2.96	1.97	3.05	2.03	3.26	2.17	3.39	2.26			
	14	2.03	1.35	2.43	1.62	3.26	2.17	3.17	2.11	3.60	2.40	3.53	2.35			
	15	2.12	1.41	2.49	1.65	3.63	2.41	3.29	2.19	4.01	2.67	3.67	2.44			
	16	2.22	1.48	2.55	1.69	4.06	2.70	3.42	2.28	4.50	2.99	3.83	2.55			
	17	2.34	1.56	2.61	1.74	4.58	3.05	3.57	2.37	5.08	3.38	4.00	2.66			
	18	2.47	1.64	2.68	1.78	5.14	3.42	3.72	2.48	5.69	3.79	4.19	2.79			
	19	2.62	1.74	2.75	1.83	5.73	3.81	3.89	2.59	6.34	4.22	4.43	2.95			
	20	2.78	1.85	2.82	1.88	6.34	4.22	4.12	2.74	7.02	4.67	4.76	3.17			
	22	3.16	2.11	2.98	1.98	7.68	5.11	4.69	3.12	8.50	5.66	5.44	3.62			
	24	3.65	2.43	3.16	2.10	9.14	6.08	5.25	3.50	10.1	6.73	6.11	4.07			
	26	4.26	2.84	3.38	2.24	10.7	7.13	5.82	3.87	11.9	7.90	6.79	4.51			
	28	4.94	3.29	3.67	2.44	12.4	8.27	6.38	4.25	13.8	9.16	7.46	4.96			
	30	5.68	3.78	4.06	2.70											
	32	6.46	4.30	4.45	2.96											
	34	7.29	4.85	4.85	3.22											
	36	8.17	5.44	5.24	3.49											
	38	9.11	6.06	5.64	3.75											
	40	10.1	6.71	6.04	4.02											
Other Constants and Properties																
$M_y \times 10^3$ , (kip-ft) <sup>-1</sup>		8.44		5.62		14.4		9.60		15.8		10.5				
$F_y \times 10^3$ , (kips) <sup>-1</sup>		1.50		0.997		1.60		1.06		1.75		1.16				
$F_y \times 10^3$ , (kips) <sup>-1</sup>		1.84		1.23		1.96		1.31		2.15		1.43				
$r_x/r_y$		2.96				4.41				4.43						
$r_y$ , in.		2.61				1.70				1.69						
<sup>c</sup> Shape is slender for compression with $F_y = 50$ ksi. Note: Heavy line indicates $KL/r_y$ equal to or greater than 200.																

# Aisc Steel Manual 14 Ed

**Alan Williams**



## **Aisc Steel Manual 14 Ed:**

PPI ARE 5.0 Exam Review All Six Divisions, 2nd Edition eText - 3 Months, 6 Months, 1 Year David Kent Ballast, Steven E. O'Hara, 2020-09-01 NCARB Approved for all Six Divisions PPI's second edition of the ARE 5.0 Exam Review by David Kent Ballast offers a comprehensive review of content areas covered in all six NCARB ARE 5.0 division exams Building on the first edition the content has been thoroughly reviewed and updated to the ARE 5.0 exam objectives for all six divisions Key Features NEW NCARB approvals on all six divisions A thorough review of all exam objectives to prepare you to pass all six divisions Over 150 example questions reinforce what you've learned and clarify how to apply key architectural concepts Pages tabbed in six different colors one for each division for easy lookup of a particular exam division Hundreds of tables and figures to facilitate referencing and problem solving Advice tips and exam taking strategies to prepare you for exam day Binding Paperback Publisher PPI a Kaplan Company All Six ARE 5.0 Exam Divisions Covered Comprehensively Practice Management Project Management Programming Analysis Project Planning Design Project Development Documentation Construction Evaluation **PPI PE Structural 16-Hour Practice Exam for Buildings, 6th Edition - 1 Year** Joseph S Schuster, 2022-06-21 PE Structural 16 Hour Practice Exam for Buildings Sixth Edition offers comprehensive practice for the NCEES PE Structural 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 16 Hour Practice Exam for Buildings Sixth Edition features include The Most Realistic Practice for the PE Structural Exam Two 40 problem multiple choice breadth exams Two four essay depth exams consistent with the NCEES PE Structural exam's format and specifications Multiple choice problems require an average of six minutes to solve Essay problems can be solved in one hour Comprehensive step by step solutions for all problems demonstrate accurate and efficient problem solving approaches Solutions to the depth exams essay problems use blue text to identify the information you will be expected to include in your exam booklet to receive full credit Supplemental content uses black text to enhance your understanding of the solution process Referenced Codes and Standards AASHTO LRFD Bridge Design Specifications AASHTO 8th Ed Building Code Requirements and Specification for Masonry Structures TMS 402 602 2016 Ed Building Code Requirements for Structural Concrete ACI 318 2014 Ed International Building Code IBC 2018 Ed Minimum Design Loads for Buildings and Other Structures ASCE SEI7 2016 Ed National Design Specification for Wood Construction ASD LRFD and National Design Specification Supplement Design Values for Wood Construction NDS 2018 Ed Seismic Design Manual AISC 327 3rd Ed Special Design Provisions for Wind and Seismic with Commentary SDPWS 2015 Ed Steel Construction Manual AISC 325 15th Ed eTextbook Access Benefits Include One year of access Ability to download the entire eTextbook to multiple devices so you can study even without internet access An auto sync feature across all your devices for a seamless experience on or offline Unique study tools such as highlighting in six different colors to tailor your study experience Features like read aloud for complete hands free review **Applied Strength of Materials** Robert

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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 Connection Analysis** Paolo Rugarli, 2018-02-15 First book to discuss the analysis of structural steel connections by Finite Element Analysis which provides fast efficient and flexible checking of these vital structural components The analysis of steel structures is complex much more so than the analysis of similar concrete structures There are no universally accepted rules for the analysis of connections in steel structures or the analysis of the stresses transferred from one connection to another This book presents a general approach to steel connection analysis and check which is the result of independent research that began more than fifteen years ago It discusses the problems of connection analysis and describes a generally applicable methodology based on Finite Element Analysis for analyzing the connections in steel structures That methodology has been implemented in software successfully providing a fast automatic and flexible route to the design and analysis of the connections in steel structures Steel Connection Analysis explains several general methods which have been researched and programmed during many years and that can be used to tackle the problem of connection analysis in a very general way with a limited and automated computational effort It also covers several problems related to steel connection analysis automation Uses Finite Element Analysis to discuss the analysis of structural steel connections Analysis is applicable to all connections in steel structures The methodology is the basis of the commercially successful CSE connection analysis software Analysis is fast and flexible Structural engineers fabricators software developing firms university researchers and advanced students of civil and structural engineering will all benefit from Steel Connection Analysis

**Highway Bridge Superstructure Engineering** Narendra Taly, 2014-11-21 A How To Guide for Bridge Engineers and Designers Highway Bridge Superstructure Engineering LRFD Approaches to Design and Analysis provides a detailed discussion of traditional structural design perspectives and serves as a state of the art resource on the latest design and analysis of highway bridge superstructures This book is applicable to highway bridges of all construction and material types and is based on the load and resistance factor design LRFD philosophy It discusses the theory of probability with an explanation leading to the calibration process and reliability and includes fully solved design examples of steel reinforced and prestressed concrete bridge superstructures It also contains step by step calculations for determining the distribution factors for several different types of bridge superstructures which form the basis of load and resistance design specifications and can be found in the AASHTO LRFD Bridge Design Specifications Fully Realize the Basis and Significance of LRFD Specifications Divided into six chapters this instructive text Introduces bridge engineering as a discipline of structural design Describes numerous types of highway bridge superstructures systems Presents a detailed discussion of various types of loads that act on bridge superstructures and substructures Discusses the methods of analyses

of highway bridge superstructures Includes a detailed discussion of reinforced and prestressed concrete bridges and slab steel girder bridges Highway Bridge Superstructure Engineering LRFD Approaches to Design and Analysis can be used for teaching highway bridge design courses to undergraduate and graduate level classes and as an excellent resource for practicing engineers **Historical Building Construction: Design, Materials, and Technology (Second Edition)**

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