Table 6-2 (continued)

Available Strength for Members Subject to Axial, Shear, Flexural and Combined Forces

d Combined Forces
W-Shapes

W12

W12×				Shape W12×									
72		65		58		Ib/ft		72		65 ¹		58	
Pal De	ФcРa	P_{α}/Ω_{c}	ΦcPn	Palsie	ΦcPn			MaxIsh	Φ ₀ M _{mx}	May/Ob	Φ ₀ M _{mx}	May Do	$\Phi_{2}M_{nx}$
Ava	ailable C	ompres	sive Str	ength, k	ips	Desi	gn		Availab	le Flexu	ral Stren	gth, kip	-fit
ASD	LRFD	ASD	LRFD	ASD	LRFD			ASD	LRFD	ASD	LRFD	ASD	LRFD
632	949	572	859	509	765		0	269	405	237	356	216	324
606	911	549	825	479	720		6	269	405	237	356	216	324
597	898	540	812	469	705	_	7	269	405	237	356	216	324
587	883	531	798	457	687	4	8	269	405	237	356	216	324
576	866	521	783	445	668	8	9	269	405	237	356	215	323
564	847	510	766	431	647	gyration, ing	10	269	405	237	356	211	318
550	827	497	747	416	625	2 2	11	268	404	237	356	207	312
536	806	484	728	400	601	5 B	12	265	398	237	356	204	306
521 505	783	470 456	707 685	384	577		13	261	392	233	350 345	200	301
489	759 735	441	663	349	551 525	adius mis be	15	257 254	381	230	340	196	295 289
472	709	426	640	332	499	ti es	16	250	276	222	234	180	283
455	683	410 393	616	314	472 445		17	246 242	370	219	329	185	278 272
437 419	656 629	377	591 567	296 278	418	5 5	19	239	359	212	323 318	177	266
401	602	360	542	261	392	8 =	20	235	353	208	313	173	261
	547		492	227	341	2 3			342				
364 328	493	327 294	442	194	292	= =	22	228 220	331	201 194	302 291	166 158	249 238
292	440	262	394	165	249	with a	26	213	320	186	280	151	227
259	389	231	348	143	214		28	205	309	179	269	143	215
226	340	202	304	124	187	1,0 bee	30	198	297	172	259	135	203
199	299	178	267	109	164	-7.5	32	190	286	165	248	125	188
176	265	157	236	96.7	145	45.45	34	183	275	158	237	116	174
157	236	140	211	86.3	130	or unb	36	176	264	149	224	108	163
141	212	126	189	77.4	116		38	167	251	139	209	102	153
127	191	114	171	69.9	105	Effective	40	157	236	130	196	95.7	144
115	173	103	155			2	42	148	223	123	185	90.5	136
105	158	93.9	141			Side of the last	-64	140	211	116	175	85.8	129
96.2	145	85.9	129				46	133	200	110	166	81.6	123
88.3	133	78.9	119				48	127	191	105	158	77.8	117
81.4	122	72.7	109	-			50	121	182	100	150	74.3	112

Properties

A	vailable St	trength in	Tensile Yi	elding, kip	4
PalOz	4.P.	Palica.	.Pa	Palitie	4.P.
632	950	572	860	509	765
Available	e Strength	in Tensile	Rupture (A = 0.75	4 _a), kips
Paltite	♦ +P _m	Palitie	♦ePa	Palitie	ΦeP _m
514	770	465	697	416	624
	Availat	ble Strengt	th in Shea	r, kips	-
Variou.	4.V_	ValCo.	. V.	Value.	. V.
106	159	94.4	142	87.8	132
Availa	able Streng	pth in Flex	ure about	Y-Y Axis,	kip-ft
Mayellille	Φ2.May	Maylin	ф _b .M _{my}	Maylin	♦ 0.May
123	185	107	161	81.1	122

 $F_y = 50 \text{ ksi}$ $F_u = 65 \text{ ksi}$

	Limit	ing Unbra	ced Lengt	hs, ft		
Lp	L	Lp	E.	Lp	Le	
10.7	37.5	11.9	35.1	8.87	29.8	
		Area	, im.2			
21	.1	19	1.1	17.0		
	No.	forment of	Inertia, in	4		
f _a	Ly	Ew .	E _p	I.	I.	
597	195	533	174	475	107	
		Fpn	im.			
3.0	04	3.0	02	2.51		
		Fai	(r _r			
10.0	75	1.7	75	2.10		

[†] Shape exceeds compact limit for flexure with $F_y = 50$ kai. Note: Heavy line indicates L_c/r equal to or greater than 200.

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can be used during the first semester Heavy emphasis should be placed on Chapters 1 through 5 giving the student a brief exposure to the consideration of wind and earthquakes in the design of buildings With the new federal requirements vis a vis wind and earthquake hazards it is beneficial to the student to have some under standing of the underlying concepts in this field In addition to the class lectures the instructor should require the student to submit a term project that includes the complete structural design of a multi story building using standard design procedures as specified by AISC Specifications Thus the use of the AISC Steel Construction Manual is a must in teaching this course In the second semester Chapters 9 through 13 should be covered At the undergraduate level Chapters 11 through 13 should be used on a limited basis leaving the student more time to concentrate on composite construction and built up girders **Structural Analysis and Design** of Tall Buildings Bungale S. Taranath, 2016-04-19 As software skills rise to the forefront of design concerns the art of structural conceptualization is often minimized Structural engineering however requires the marriage of artistic and intuitive designs with mathematical accuracy and detail Computer analysis works to solidify and extend the creative idea or concept that might have started out as a sketch on the back of an envelope From Sketches on the Back of an Envelope to Elegant Economical Buildings The Art of Structural Conceptualization Bridging the gap between the conceptual approach and computer analysis Structural Analysis and Design of Tall Buildings Steel and Composite Construction integrates the design aspects of steel and composite buildings in one volume Using conceptual thinking and basic strength of material concepts as foundations the book shows engineers how to use imperfect information to estimate the answer to larger and more complex design problems by breaking them down into more manageable pieces Written by an accomplished structural engineer this book discusses the behavior and design of lateral load resisting systems the gravity design of steel and composite floors and columns and methods for determining wind loads It also examines the behavior and design of buildings subject to inelastic cyclic deformation during large earthquakes with an emphasis on visual and descriptive analysis as well as the anatomy of seismic provisions and the rehabilitation of seismically vulnerable steel buildings Intuitive Techniques for Construction and Design The book covers a range of special topics including performance based design and human tolerance for the wind induced dynamic motions of tall buildings It also presents preliminary analysis techniques graphical approaches for determining wind and seismic loads and graphical aids for estimating unit quantity of structural steel The final chapter deals with the art of connection design Forty case studies from New York's Empire State Building to Kuala Lumpur's Petronas Towers highlight the aspects of conceptualization that are key in the design of tall and ultra tall buildings A comprehensive design reference this book guides engineers to visualize conceptualize and realize structural systems for tall buildings that are elegant and economical Steel Structures: Roof Members Design and Detailing Saad Hasan Tantawi, 2018-08-03 The Objective of this book is to guide structural engineering students and engineering professionals into the process of roof members design and calculations for steel framed buildings This book covers gravity and lateral loads calculations in

accordance with ASCE7 10 how to calculate snow drift loads moment frames and braced frames lateral load analysis using the slope deflection methods and unit load methods Moment connections calculations according to AISC Design Guides and roof members design subjected to both axial and flexural bending This book also covers over 230 different sections details done in CAD and REVIT for roof framing Details such as roof beams and joists attachment into a brick and metal studs walls CMU walls concrete and wood walls connections detailing whether it is a moment or shear connection existing roof joists web and chord reinforcement and roof trusses section details Seismic Design for Buildings ,1993 Structural Depth Six-Minute Problems eText - 1 Year Christine A. Subasic, 2019-06-03 Problems and Detailed Solutions for Comprehensive Exam Prep Up to date to the NCEES exam specifications and codes PE Civil Structural Depth Six Minute Problems contains over 100 multiple choice problems representative of the PE Civil Structural exam format scope of topics and level of difficulty Comprehensive step by step solutions for all problems demonstrate accurate and efficient solving approaches to be used on exam day Pair these problems with the Structural Depth Reference Manualand Practice Exams for a comprehensive review This book is included in the PE Civil Structural Complete Exam Bundle Updated Reference Codes and Standards American Wood Council Special Design Provisions for Wind and Seismic AASHTO LRFD Bridge Design Specifications Building Code Requirements and Specification for Masonry Structures ACI 530 530 1 Building Code Requirements for Structural Concrete ACI 318 Minimum Design Loads for Buildings and Other Structures ASCE SEI7 International Building Code IBC National Design Specification for Wood Construction ASD LRFD NDS PCI Design Handbook Precast and Prestressed Concrete PCI Safety and Health Regulations for Construction OSHA 29 CFR Part 1926 Steel Construction Manual AISC About the exam The NCEES PE Civil Structural Exam is an 8 hour open book exam The exam is a breadth and depth examination You will work the breadth exam in the morning 4 hours 40 multiple choice questions and the Structural depth exam in the afternoon 4 hours 40 multiple choice questions Key Features Over 100 multiple choice problems Follows exam format scope of topics and level of difficulty Assess and strengthen your problem solving skills Binding Paperback Publisher PPI A Kaplan Company PPI PE Structural Breadth Six-Minute Problems with Solutions, 7th Edition - 1 Year Christine A. Subasic, 2021-10-12 PE Structural Breadth Six Minute Problems with Solutions Seventh 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 Breadth Six Minute Problems with Solutions Seventh Edition features include 90 multiple choice problems are grouped into two chapters vertical forces and lateral forces that correspond to the exam s two breadth exam components Problems are representative of the breadth exam's format the scope of topics and level of difficulty Each problem includes a hint that provides optional problem solving guidance A comprehensive step by step solution for each problem demonstrates accurate and efficient solving approaches Referenced Codes and Standards AASHTO LRFD Bridge Design Specifications AASHTO 8th Ed Building

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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

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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 Tall Building Design Bungale S. Taranath, 2016-10-04 Addresses the Question Frequently Proposed to the Designer by Architects Can We Do This Offering guidance on how to use code based procedures while at the same time providing an understanding of why provisions are necessary Tall Building Design Steel Concrete and Composite Systems methodically explores the structural behavior of steel concrete and composite members and systems This text establishes the notion that design is a creative process and not just an execution of framing proposals It cultivates imaginative approaches by presenting examples specifically related to essential building codes and standards Tying together precision and accuracy it also bridges the gap between two design approaches one based on initiative skill and the other based on computer skill The book explains loads and load combinations typically used in building design explores methods for determining design wind loads using the provisions of ASCE 7 10 and examines wind tunnel procedures It defines conceptual seismic design as the avoidance or minimization of problems created by the effects of seismic excitation It introduces the concept of performance based design PBD It also addresses serviceability considerations prediction of tall building motions damping devices seismic isolation blast resistant design and progressive collapse The final chapters explain gravity and lateral systems for steel concrete and composite buildings The Book Also Considers Preliminary analysis and design techniques The structural rehabilitation of seismically vulnerable steel and concrete buildings Design differences between code sponsored approaches The concept of ductility trade off for strength Tall Building Design Steel Concrete and Composite Systems is a structural design guide and reference for practicing engineers and educators as well as recent graduates entering the structural engineering profession This text examines all major concrete steel and composite building systems and uses the most up to date building codes 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 friendly Structural Steel Design Jack C. McCormac, 2008 The material is presented in a clear reader friendly style This best selling text has been fully updated to conform to the latest American Manual of Steel Construction BothLoad and Resistance Factor Design LRFD and Allowable Stress Design ASD are now covered and calculations are worked out side by side to allow for easy identification of the different methods Use of SI units as an addition to the primary use of Inch Pound units New coverage of Lateral Torsional Bending and Hollow Structural Sections For steel design students and professionals Structural Design Criteria for Structural Engineer License Review Alan Williams, 2004 Written for the Structural Engineering I and II Buildings ,1992 Exams and the California Structural Engineering Exam Includes more than 70 problems and step by step solutions from recent exams Offers 18 HP 48G calculator programs which include 6 concrete 3 masonry 3 timber 4 steel and 2 proper ties of sections design programs Reflects current publications of SEAOC and FEMA Conforms to the 1997 edition of the UBC Provides comprehensive clarification of applicable Building Codes and Standard Specifications Uses provisions of the 1999 SEAOC bluebook 1999 FEMA Advisory No 2 2000 FEMA 350 Design of Steel Moment Frame Buildings and 1997 AISC Seismic Provisions Cites extensive reference publications that reflect current design procedures **Steel Structures Design for Lateral and Vertical Forces, Second Edition** Alan Williams, 2016-05-20 A Thoroughly Updated Guide to the Design of Steel Structures This comprehensive resource offers practical coverage of steel structures design and clearly explains the provisions of the 2015 International Building Code the American Society of Civil Engineers ASCE 7 10 and the American Institute of Steel Construction AISC 360 10 and AISC 341 10 Steel Structures Design for Lateral and Vertical Forces Second Edition features start to finish engineering strategies that encompass the entire range of steel building materials members and loads All techniques strictly conform to the latest codes and specifications A brand new chapter on the design of steel structures for lateral loads explains design techniques and innovations in concentrically and eccentrically braced frames and moment frames Throughout design examples including step by step solutions and end of chapter problems using both ASD and LRFD methods demonstrate real world applications and illustrate how code requirements apply to both lateral and vertical forces This up to date Second Edition covers Steel Buildings and Design Criteria Design Loads Behavior 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 and Composite Members Design of Steel Structures for Lateral Loads **Steel Buildings** Stanley W. Crawley, Robert M. Dillon, 1993 This volume presents the general principles of structural analysis and their application to the design of low and intermediate height building frames The text is accompanied by software for the analysis of axial forces displacement and the bending moment and the determination of shear

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