

Table 6-2 (continued)
Available Strength for Members
Subject to Axial, Shear,
Flexural and Combined Forces
W-Shapes

$F_y = 50$ ksi
 $F_u = 65$ ksi



W12x						Shape lb/ft	Design	W12x					
72		65		58				72		65 [†]		58	
P_n/Ω_c	$\phi_c P_n$	P_n/Ω_c	$\phi_c P_n$	P_n/Ω_c	$\phi_c P_n$			M_{max}/Ω_b	$\phi_b M_{max}$	M_{max}/Ω_b	$\phi_b M_{max}$	M_{max}/Ω_b	$\phi_b M_{max}$
Available Compressive Strength, kips								Available Flexural Strength, kip-ft					
ASD	LRFD	ASD	LRFD	ASD	LRFD			ASD	LRFD	ASD	LRFD	ASD	LRFD
632	949	572	859	509	765	Effective length, L_e , ft, with respect to least radius of gyration, r_y or unbraced length, L_b , ft, for X-Y axis bending	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		8	269	405	237	356	216	324
576	866	521	783	445	668		9	269	405	237	356	215	323
564	847	510	766	431	647		10	269	405	237	356	211	318
550	827	497	747	416	625		11	268	404	237	356	207	312
536	806	484	728	400	601		12	265	398	237	356	204	306
521	783	470	707	384	577		13	261	392	233	350	200	301
505	759	456	685	367	551		14	257	387	230	345	196	295
489	735	441	663	349	525		15	254	381	226	340	192	289
472	709	426	640	332	499		16	250	376	222	334	189	283
455	683	410	616	314	472		17	246	370	219	329	185	278
437	656	393	591	296	445		18	242	364	215	323	181	272
419	629	377	567	278	418		19	239	359	212	318	177	266
401	602	360	542	261	392		20	235	353	208	313	173	261
364	547	327	492	227	341		22	228	342	201	302	166	249
328	493	294	442	194	292		24	220	331	194	291	158	238
292	440	262	394	165	249		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		30	198	297	172	259	135	203
199	299	178	267	109	164		32	190	286	165	248	125	188
176	265	157	236	96.7	145		34	183	275	158	237	116	174
157	236	140	211	86.3	130		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		40	157	236	130	196	95.7	144
115	173	103	155				42	148	223	123	185	90.5	136
105	158	93.9	141				44	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

Available Strength in Tensile Yielding, kips						Limiting Unbraced Lengths, ft					
P_n/ϕ_t	$\phi_t P_n$	P_n/ϕ_t	$\phi_t P_n$	P_n/ϕ_t	$\phi_t P_n$	L_p	L_r	L_p	L_r	L_p	L_r
632	950	572	860	509	765	10.7	37.5	11.9	35.1	8.87	29.8
Available Strength in Tensile Rupture ($A_n = 0.75A_g$), kips						Area, in. ²					
P_n/ϕ_t	$\phi_t P_n$	P_n/ϕ_t	$\phi_t P_n$	P_n/ϕ_t	$\phi_t P_n$	21.1		19.1		17.0	
514	770	465	697	416	624	Moment of Inertia, in. ⁴					
V_n/ϕ_v	$\phi_v V_n$	V_n/ϕ_v	$\phi_v V_n$	V_n/ϕ_v	$\phi_v V_n$	I_x	I_y	I_x	I_y	I_x	I_y
106	159	94.4	142	87.8	132	597	195	533	174	475	107
Available Strength in Shear, kips						r_{p1} , in.					
M_{ny}/ϕ_b	$\phi_b M_{ny}$	M_{ny}/ϕ_b	$\phi_b M_{ny}$	M_{ny}/ϕ_b	$\phi_b M_{ny}$	3.04		3.02		2.51	
123	185	107	161	81.1	122	1.75		1.75		2.10	

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

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P.E., Ramon V. Jarquio



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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 Handbook of Civil Engineering Calculations, Second Edition Tyler G. Hicks, S. David Hicks, 2007-05-23 Table of Contents Preface How to Use This Handbook Sect 1 Structural Steel Engineering and Design Sect 2 Reinforced and Prestressed Concrete Engineering and Design Sect 3 Timber Engineering Sect 4 Soil Mechanics Sect 5 Surveying Route Design and Highway Bridges Sect 6 Fluid Mechanics Pumps Piping and Hydro Power Sect 7 Water Supply and Stormwater System Design Sect 8 Sanitary Wastewater Treatment and Control Sect 9 Engineering Economics Index I Simplified Design of Steel Structures James Ambrose, 1997 The seventh edition of *Simplified Design of Steel Structures* is an excellent reference for architects and engineers who need information about the common uses of steel for the structures of buildings The clear and concise format benefits readers who have limited backgrounds in mathematics and engineering This new edition has been updated to reflect changes in standards industry technology and construction practices including new research in the field examples of general building structural systems and the use of computers in structural design Specifically Load and Resistance Factor Design LRFD and Allowable Stress Design ASD are now covered *Guide to Application of the 1991 NEHRP Recommended Provisions in Earthquake-Resistant Building Design* James R. Harris, 1996-07 Provides architects designing buildings in seismic risk areas with the information needed to effectively utilize the National earthquake Hazards Reduction program NEHRP Recommended Provisions Rigorously updated this manual includes the best most current technological information for reducing safety hazards Chapter topics include fundamentals structural analysis structural steel reinforced concrete timber masonry nonstructural elements List of symbols Metric unit conversion tables Graphs charts **Building Structures** James E. Ambrose, 1993 Construction Details From Architectural Graphic Standards Eighth Edition Edited by James Ambrose A concise reference tool for the professional involved in the production of details for building construction this abridgement of the classic Architectural Graphic Standards provides indispensable guidance on standardizing detail work without having to create the needed details from scratch An ideal how to manual for the working draftsman this convenient portable edition covers general planning and design data sitework concrete masonry metals wood doors and windows finishes specialties equipment furnishings special construction energy design historic preservation and more Construction Details also includes extensive references to additional information as well as AGS's hallmark illustrations 1991 0 471 54899 5 408 pp Fundamentals of Building Construction Materials And Methods Second Edition Edward Allen A thoughtful overview of the entire construction industry from homes to skyscrapers there's plenty here for the aspiring tradesperson or anyone else who's fascinated by the art of building Fine Homebuilding Beginning with the materials of the

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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 Design James R. Underwood, Michele Chiuini, 1998 Structural Design presents the conceptual and practical underpinnings of basic building design and technology in a single comprehensive source It provides essential coverage of the integral relationships of structural architectural form and spatial organization and an understanding of the impact of load configurations and other key determinants of design Essential principles as well as structural solutions are visually reinforced with hundreds of architectural drawings photographs and other illustrations making this book truly architect friendly Ideal for use as a general and technical reference in the design studio as a study aid for the architectural registration exam or as an office resource Structural Design is a superb companion for the architecture student and practicing professional It includes In depth coverage of steel wood reinforced concrete and masonry including lateral force generation and design Over 1 000 illustrations and photographs Real world examples sample problems and useful references throughout Conventional and SI unit systems

Building Structures James Ambrose, Patrick Tripeny, 2011-10-18 The comprehensive reference on the basics of structural analysis and design now updated with the latest considerations of building technology Structural design is an essential element of the building process yet one of the most difficult to learn While structural engineers do the detailed consulting work for a building project architects need to know enough structural theory and analysis to design a building Most texts on structures for architects focus narrowly on the mathematical analysis of isolated structural components yet Building Structures looks at the general concepts with selected computations to understand the role of the structure as a building subsystem without the complicated mathematics New to this edition is a complete discussion of the LRFD method of design supplemented by the ASD method in addition to The fundamentals of structural analysis and design for architects A glossary exercise problems and a companion website and instructor s manual Material ideally suited for preparing for the ARE exam Profusely illustrated throughout with drawings and photographs and including new case studies Building Structures Third Edition is perfect for nonengineers to understand and visualize structural design

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

Principles of Structural Design Ram S. Gupta, 2011-07-01 Anyone involved with structural design whether a student or a practicing engineer must maintain a functional understanding of wood steel and concrete design principles In covering all of these materials Principles of Structural Design Wood Steel and Concrete fills a gap that exists in the instructional resources It provides a self contained authoritative source that elaborates on the most recent practices together with the code connected fundamentals that other books often take for granted Dr Ram Gupta a professional engineer provides readers with insights garnered over a highly active 40 year international career Organized for ready reference the book is divided into four main sections Part I covers loads load combinations and specific code requirements for different types of loads It elaborates on the LRFD load resistance factor design philosophy and the unified approach to design Part II covers sawn lumber structural glued laminated timber and structural composite lumber It reviews tension compression and bending members as well as the effects of column and beam stabilities and combined forces Part III considers the steel design of individual tension compression and bending members Additionally it provides designs for braced and unbraced frames Open web steel joists and joist girders are included here as they form a common type of flooring system for steel frame buildings Part IV analyzes the design of reinforced beams and slabs shear and torsion compression and combined compression and flexure in relation to basic concrete structures This textbook presents the LRFD approach for designing structural elements according to the latest codes Written for architecture and construction management majors it is equally suitable for civil and structural engineers

Structural Analysis and Design of Tall Buildings Bungle 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

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structural concept for a building and dealing with structural issues Using diagrams models computer simulations case studies and exercises Architectural Structures provides a comprehensive narrative that makes selecting and giving shape to structures and structural elements understandable In addition to developing the necessary vocabulary to effectively work with structural engineers it helps readers gain a common sense understanding of principles and issues the complexities of the design process and useful analytic methods This exceptional volume also features Diagrams drawings and photographs supporting complex concepts Helpful case studies illustrating structural behavior and the design of structural systems Information on cost estimation and other practical issues Real world problems and solutions based on actual building structures

Architectural & Structural Topic George Salinda Salvan,1996 Steel Connection Design by Inelastic Analysis IDEA StatiCa,Mustafa Mahamid,Mark Denavit,Ali Nassiri,Halil Sezen,Martin Vild,2024-10-15 Comprehensive resource on the finite element method in structural steel connection design through verification with AISC 360 provisions Steel Connection Design by Inelastic Analysis covers the use of the finite element method in structural steel connection design Verification with AISC 360 provisions is presented focusing on the Component Based Finite Element Method CBFEM a novel approach that provides the global behavior and verification of resistance for the design of structural steel connections This method is essential for fast and practical design and evaluation of connections with different levels of geometry and complexity Detailed modeling and verification examples with references to AISC and other relevant publications are included throughout the text along with roughly 250 illustrations to aid in reader comprehension Readers of this text will benefit from understanding at least the basics of structural design ideally through civil structural or mechanical engineering programs of study Written by a team of six highly qualified authors Steel Connection Design by Inelastic Analysis includes information on T stub connections single plate shear connections bracket plate connections beam over column connections and end plate moment connections Bolted wide flange splice connections temporary splice connections and chevron brace connection in a braced frame Brace connections at beam column connection in a braced frame and double angle simple beam to column connections Semi rigid beam to column connections covering code design calculations and comparisons IDEA StatiCa analysis and ABAQUS analysis Steel Connection Design by Inelastic Analysis is an authoritative reference on the subject for structural engineers Engineers of Record EORs fabrications specialists and connection designers involved in the structural design of steel connections in the United States or any territory using AISC 360 as the primary design code *Handbook of Structural Engineering* W.F. Chen,1997-10-24 Covering the broad spectrum of modern structural engineering topics the Handbook of Structural Engineering is a complete single volume reference It includes the theoretical practical and computing aspects of the field providing practicing engineers consultants students and other interested individuals with a reliable easy to use source of information Divided into three sections the handbook covers

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