

Table 1-3 (continued)
S Shapes
Properties



Nom- inal WT.	Compact Section Criteria		Axis X-X				Axis Y-Y				r_{tx}	r_{ty}	Torsional Properties	
			I	S	r	Z	I	S	r	Z			J	C_w
	b_f	h	in. ⁴	in. ³	in.	in. ³	in. ⁴	in. ³	in.	in. ³			in. ⁴	in. ⁶
121	3.69	25.9	3160	258	9.43	306	83.0	20.6	1.53	36.3	1.94	23.4	12.8	11400
106	3.61	33.4	2940	240	9.71	279	76.8	19.5	1.57	33.4	1.93	23.4	10.1	10500
100	4.16	27.8	2380	199	9.01	239	47.4	13.1	1.27	24.0	1.66	23.1	7.59	6350
90	4.09	33.1	2250	187	9.21	222	44.7	12.5	1.30	22.4	1.66	23.1	6.05	5980
80	4.02	41.4	2100	175	9.47	204	42.0	12.0	1.34	20.8	1.67	23.1	4.89	5620
96	3.91	21.1	1670	165	7.71	198	49.9	13.9	1.33	24.9	1.71	19.4	8.40	4690
86	3.84	25.6	1570	155	7.89	183	46.6	13.2	1.36	23.1	1.71	19.4	6.65	4370
75	4.02	26.6	1280	128	7.62	152	29.5	9.25	1.16	16.7	1.49	19.2	4.59	2720
66	3.93	33.5	1190	119	7.83	139	27.5	8.78	1.19	15.4	1.49	19.2	3.58	2530
70	4.52	21.5	923	103	6.70	124	24.0	7.69	1.08	14.3	1.42	17.3	4.10	1800
54.7	4.34	33.2	801	89.0	7.07	104	20.7	6.91	1.14	12.1	1.42	17.3	2.33	1550
50	4.53	22.7	485	64.7	5.75	77.0	15.6	5.53	1.03	9.99	1.32	14.4	2.12	805
42.9	4.42	30.4	446	59.4	5.95	69.2	14.3	5.19	1.06	9.08	1.31	14.4	1.54	737
50	4.16	13.7	303	50.6	4.55	60.9	15.6	5.69	1.03	10.3	1.32	11.3	2.77	501
40.8	3.98	20.6	270	45.1	4.76	52.7	13.5	5.13	1.06	8.86	1.30	11.3	1.69	433
35	4.67	23.1	228	38.1	4.72	44.6	9.84	3.88	0.980	6.80	1.22	11.5	1.05	323
31.8	4.60	28.3	217	36.2	4.83	41.8	9.33	3.73	1.00	6.44	1.21	11.5	0.878	306
35	5.03	13.4	147	29.4	3.78	35.4	8.30	3.36	0.899	6.19	1.16	9.51	1.29	188
25.4	4.75	25.6	123	24.6	4.07	28.3	6.73	2.89	0.950	4.99	1.14	9.51	0.603	152
23	4.91	14.1	64.7	16.2	3.09	19.2	4.27	2.05	0.795	3.67	0.999	7.58	0.550	61.2
18.4	4.71	22.9	57.5	14.4	3.26	16.5	3.69	1.84	0.827	3.18	0.985	7.58	0.335	52.9
17.2	4.97	9.67	26.2	8.74	2.28	10.5	2.29	1.28	0.673	2.35	0.859	5.64	0.371	18.2
12.5	4.64	19.4	22.0	7.34	2.45	8.45	1.80	1.08	0.702	1.86	0.831	5.64	0.167	14.3
10	4.61	16.8	12.3	4.90	2.05	5.66	1.19	0.795	0.638	1.37	0.754	4.67	0.114	6.52
9.5	4.77	8.33	6.76	3.38	1.56	4.04	0.887	0.635	0.564	1.13	0.698	3.71	0.120	3.05
7.7	4.54	14.1	6.05	3.03	1.64	3.50	0.748	0.562	0.576	0.970	0.676	3.71	0.0732	2.57
7.5	4.83	5.38	2.91	1.94	1.15	2.35	0.578	0.461	0.513	0.821	0.638	2.74	0.0896	1.06
5.7	4.48	11.0	2.50	1.67	1.23	1.94	0.447	0.383	0.518	0.656	0.605	2.74	0.0433	0.838

Aisc Steel Manual 13th

Matt Allen,Randy Mayes,Daniel Rixen

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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

Standard Handbook of Petroleum and Natural Gas Engineering William Lyons, Gary J Plisga BS, Michael Lorenz, 2015-12-08 Standard Handbook of Petroleum and Natural Gas Engineering Third Edition provides you with the best state of the art coverage for every aspect of petroleum and natural gas engineering With thousands of illustrations and 1 600 information packed pages this handbook is a handy and valuable reference Written by dozens of leading industry experts and academics the book provides the best most comprehensive source of petroleum engineering information available Now in an easy to use single volume format this classic is one of the true must haves in any petroleum or natural gas engineer's library A classic for over 65 years this book is the most comprehensive source for the newest developments advances and procedures in the oil and gas industry New to this edition are materials covering everything from drilling and production to the economics of the oil patch Updated sections include underbalanced drilling integrated

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Surovek,2008-04-18 Practical guide to structural stability theory for the design of safe steel structures Not only does this book provide readers with a solid foundation in structural stability theory it also offers them a practical working knowledge of how this theory translates into design specifications for safe steel structures Structural Stability of Steel features detailed discussions of the elastic and inelastic stability of steel columns beams beam columns and frames alongside numerous worked examples For each type of structural member or system the authors set forth recommended design rules with clear explanations of how they were derived Following an introduction to the principles of stability theory the book covers Stability of axially loaded planar elastic systems Tangent modulus reduced modulus and maximum strength theories Elastic and inelastic stability limits of planar beam columns Elastic and inelastic instability of planar frames Out of plane lateral torsional buckling of beams columns and beam columns The final two chapters focus on the application of stability theory to the practical design of steel structures with special emphasis on examples based on the 2005 Specification for Structural Steel Buildings of the American Institute of Steel Construction Problem sets at the end of each chapter enable readers to put their newfound knowledge into practice by solving actual instability problems With its clear logical progression from theory to design implementation this book is an ideal textbook for upper level undergraduates and graduate students in structural engineering Practicing engineers should also turn to this book for expert assistance in investigating and solving a myriad of stability problems Behaviour of Steel Structures in Seismic Areas Federico Mazzolani,Ricardo Herrera,2012-01-31

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Applications of Metaheuristic Optimization Algorithms in Civil Engineering A.

Kaveh, 2016-11-30 The book presents recently developed efficient metaheuristic optimization algorithms and their applications for solving various optimization problems in civil engineering The concepts can also be used for optimizing problems in mechanical and electrical engineering

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