See AISC Table 1-1 below. Which of the following steel sections will carry the highest strong axis moment? Assume strong axis bending and the failure stress is the same for each.

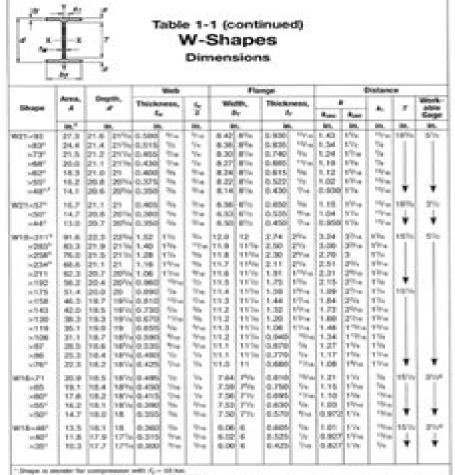
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7.04 66.5



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	200	7												
90	4.30	30.3	3070	192	8.7%	227	10.9	20.1	1.04	34.7	2.24	30.7	4.00	394
4.5	5.00	36.4	1400	121	8.67	106	85.4	19.3	1.85	30.5	2.3%	39.6	4.34	800
73	1.40	41.2	1600	191	5.64	100	30.6	17.0	1.01	26.6	2.10	20.5	3.60	7419
68	6.04	43.6	1400	140	8.60	160	64.7	15.7	1.80	34.4	2.17	20.4	2.46	679
621	6.79	45.0	1300	107	8.54	1944	37.8	14.0	3.77	29.7	2.15	30.4	1.83	5000
30	7.87	50.0	1140	110	6.40	126	48.4	15.8	1.79	18.4	2.19	20.3	1.24	4000
48	9.47	53.6	950	90.0	8.2%	107	38.7	9.52	1.00	34.9	2.06	20.2	5-500	3666
107	5.04	46.5	1170	101	6.36	129	30.6	9.36	1.35	14.8	1.68	20.5	1.77	2098
500	6.70	49.4	904	94.5	16.76	100	24.0	7.84	1.30	12.2	1.64	20.3	3.34	267
44	7.12	53.6	60	00.00	8.06	765.4	30.7	6.37	1.36	10.2	1.00	20.3	0.779	200
501	2.79	104	6670	624	8.79	754	796	100	2.95	202	3.53	1966	100	7500
290.0	2.38	91.3	6179	585	1.47	62%	754	719	2.99	100	3.67	79.4	104	40000
200	2.3%	52.5	5650	\$84	8.30	4071	628	NOT	2,66	1996	3.40	79.2	103	1,000
234	2.7%	13.8	4900	466	5.44	548	508	95.6	2.85	148	3.37	1960	78.7	190000
277		16.1	4000	400	8.36	4000	400	85.3	2.60	1130	3.00	16.6	50.6	4540
190	3.37	167	3670	300	0.39	442	440	76.0	2.79	119	3.25	16.7	44.7	3000
1079	3.56	180	3450	344	9.30	204	391	50.0	2.79	1006	3.3%	18.4	35.6	1000
159	3.90	19.8	3000	2700	0.12	256	347	10.4	2.7%	194.5	3.20	18.3	26.2	2900
143		20.0	2776	280	8.00	307	311	55.5	20,772	85.4		18.7	19.2	2570
130	4.65	22.0	2960	256	8.00	290	229	40.0	3.70	26.7	3.13	18.5	34.5	3079
179		24.5	2190	201	7.90	262	253	44.9	2.89	90.7		17.9	160 B	2000
106		27.2	1900	204	7.54	230	230	39.4	2.86	60.5		STA	7.48	1740
197		30.0	1750	188	7.60	200	201	30.1	2.65	98.3		17.7	5.86	1580
86		33.4	1530	166	7.77	100	125	20.6	2.63	46.4		PER.	4.50	1360
76	8.73	37.8	1300	146	7.75	160	102	27.6	2.61	42.2	3.00	17.5	130	1170
25		32.4	1170	107	7.30	146	80.3	15.8	1.70	267		17.7	3.49	470
-65		36.7	1000	107	7.40	133	54.8	34.4	1.00	20.5		17.7	3.73	424
60		36.7	964	108	7.47	123	50.1	19.0	1.66	20.6		17.5	2.67	300
55		41.5	800	98.3	7.40	152	64.3	11.0	1.07	36.5		17.5	1.86	3403
50	9.07	49.2	800	88.9	7.38	101	40.1	19.7	1.85	16.6	1.96	STA	1.24	304
46		44.6	710	78.8	7.25	90.7	22.5		1.29	11.7		17.5	1.22	170
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Table 1-1 (continued)

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[&]quot; Farge Statema greater Sun 2 in Special requirements may apply per ASS Specification Switzer All No

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Ram S. Gupta

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designing and detailing steel structures utilizing the latest design methods according to the AISC Code The goal is to prepare readers to work in design offices as designers and in the field as inspectors This new edition is compatible with the 2011 AISC code as well as marginal references to the AISC manual for design examples and illustrations which was seen as a real advantage by the survey respondents Furthermore new sections have been added on Direct Analysis Torsional and flexural torsional buckling of columns Filled HSS columns and Composite column interaction More real world examples are included in addition to new use of three dimensional illustrations in the book and in the image gallery an increased number of homework problems and media approach Solutions Manual Image Gallery 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 composites lasers automatic data collection and more No other book on the market covers the broad spectrum of engineering in as concise a fashion So whether you re looking for a specific piece of data or general background knowledge this conveniently sized ready reference puts the information you need right at your fingertips Contents include Mathematics Mechanics and materials Hydraulics Structures Thermodynamics Electricity and electronics Process control Statistics and economics Energy sources Engineering practice The design process Tables and reference data

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functions LSFs are implicit in nature and the lack of progress in the reliability evaluation methods for this class of problems The most sophisticated deterministic analysis requires that the dynamic loadings must be applied in the time domain To satisfy these requirements REDSET is developed Different types and forms of dynamic loadings including seismic wind induced wave and thermomechanical loading in the form of heating and cooling of solder balls used in computer chips are considered to validate REDSET Time domain representations and the uncertainty quantification procedures including the use of multiple time histories are proposed and demonstrated for all these dynamic loadings Both onshore and offshore structures are used for validation The potential of REDSET is demonstrated for implementing the Performance Based Seismic Design PBSD concept now under development in the United States For wider multidisciplinary applications structures are represented by finite elements to capture different types of nonlinearity more appropriately. Any computer program capable of conducting nonlinear time domain dynamic analysis can be used and the underlying risk can be estimated with the help of several dozens or hundreds of deterministic finite element analyses providing an alternative to the simulation approach To aid comprehension of REDSET numerous illustrative examples and solution strategies are presented in each chapter Written by award winning thought leaders from academia and professional practice the following sample topics are included Fundamentals of reliability assessment including set theory modeling of uncertainty the risk based engineering design concept and the evolution of reliability assessment methods Implicit performance or limit state functions are expressed explicitly by the extensively modified response surface method with several new experimental designs Uncertainty quantification procedures with multiple time histories for different dynamic loadings illustrated with examples The underlying risk can be estimated using any computer program representing structures by finite elements with only few deterministic analyses REDSET is demonstrated to be an alternative to the classical random vibration concept and the basic simulation procedure for risk estimation purposes REDSET changes the current engineering design paradigm Instead of conducting one deterministic analysis a design can be made more dynamic load tolerant resilient and sustainable with the help of a few additional deterministic analyses This book describing REDSET is expected to complement two other books published by Wiley and authored by Haldar and Mahadevan Probability Reliability and Statistical Methods in Engineering Design and Reliability Assessment Using Stochastic Finite Element Analysis The book is perfect to use as a supplementary resource for upper level undergraduate and graduate level courses on reliability and risk based design Aluminum Structures J. Randolph Kissell, Robert L. Ferry, 2002-10-02 On the First Edition The book is a success in providing a comprehensive introduction to the use of aluminum structures contains lots of useful information Materials examples of recently built aluminum structures from buildings to bridges and a comparison of aluminum to other structural materials particularly steel Topics covered include Structural properties of aluminum alloys Aluminum structural design for beams columns and tension members Extruding and other fabrication techniques Welding and mechanical connections Aluminum

structural systems including space frames composite members and plate structures Inspection and testing Load and resistance factor design Recent developments in aluminum structures Steel Design Paul McMullin, Jonathan Price, Richard Seelos, 2017-12-06 Steel Design covers steel design fundamentals for architects and engineers such as tension elements flexural elements shear and torsion compression elements connections and lateral design As part of the Architect's Guidebooks to Structures series it provides a comprehensive overview using both imperial and metric units of measurement Each chapter includes design steps rules of thumb and design examples This book is meant for both professionals and for students taking structures courses or comprehensive studies As a compact summary of key ideas it is ideal for anyone needing a quick guide to steel design More than 150 black and white images are included Guide to Stability Design Criteria for Metal Structures Theodore V. Galambos, 1998-06-15 This book provides simplified and refined procedures applicable to design and to accessing design limitations and offers guidance to design specifications codes and standards currently applied to the stability of metal structures

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