

Mapping LMAS Stress Memos Into new PM-4057 Metallic Structural Analysis Manual Sections			
SM No	Subject	Rev Date	MSAM Section
	Index	June 88	0.0
1f	Static Strength Analysis of Lugs	April 1995, August 1996, October 1997, October 1998, July 2000	5.4
2a	Analysis of Flat Web Beams To Yield True Margins of Safety (May 99)	May 99	6.2, 6.6
7f	Shear Analysis of Round Tubes, Tubular Bolts, or Pins	March 2008	5.2, 5.4, 5.5, 10.6
8	Forgings	N/A	3.5
17a	Definitions and Rationale For Stress Analysis	May 2000	2.3, 2.10
23e	Effective Width of Sheet	November 1992	8.3
24a	Allowable Compression Stress	October 1998, July 2000	8.2, 8.3
27i	Control System Design Data	March 1976	11, 12
33f	Initial Buckling Stress of Thin-Walled Sections	January 1985, June 1998, April 1995, October 1997, October 1998, July 2000, April 2002	6.7, 6.8, 8.2-4, 10.2
41a	Beam in a Socket	April 1984, December 1989	5.3.4
45e	Stiffener Crippling Stress for Panel Allowable Prediction	January 1985	8.3
49	Standardization of Notation and Conventions	March 1943	1.4, 2.3, 10.2
53d	Bending Strength in the Plastic Range	September 2006	6.3
56b	Efficiency of Sheet Joints Attached With Shear Fasteners	January 1950, July 1958, May 1960, April 1995	5.2
57	Finite Element Analysis vs. Stress Analysis	May 1999	2.3
59	Calculation of Section Properties	February 1943, March 1949, November 1952, November 1960, July 2000	4.2
60f	Design Data for Bearings	November 1992. August 1974	11.3
61m	Design Mechanical and Physical Properties	June 2000, July 2000	3
65d	Joint Allowables and Strengths of Various Fasteners	March 2008	3.7, 5.2, 5.5
66a	Tapering of Material	January 1987, December 1989, October 1998	N/A
67a	Obtaining B Basis F_{tu} from Average R_c Values	June 2000	N/A
68a	Inter-Rivet Buckling	April 1995, October 1997	10.3
69c	Shear Stress in Corrugated or Beaded Panels	December 1966, November 1968,	6.8

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		December 1989	
70a	Combined Stresses, Interaction Curves and Margins of Safety	June 1988, October 1998, April 1995	2.4, 2.5
72c	Brazing	January 1985, December 1989	5.8
75a	Drawing Tolerances and Dimensions for Use in Analysis	October 1997	2.6
77a	Design Stress-Strain Curves	April 1995, October 1997, October 1998	3.2
79	Construction of Shear Joint Allowable Load Envelope	October 2000	5.2, 5.3, 3.3.6, 3.3.7, 3.7
80c	Non-Dimensional Compression Curves	January 1985, April 2000	8.2
82j	Castings	March 2008	3.6
83c	Column Allowables	October 1998, May 1999	8.2
84	Aluminum Swaged Tube Assemblies – LS47	January 1985, January 1987	10.6
88a	Tension Type Fittings	May 1996, October 1997, October 1998, March 2000	5.3.1
89b	Flange Bending Strength of Angles	November 1968, October 1997	5.3.5
92a	Friction Joints	March 2008	5.9
93e	Special Inspection and Test Requirements	March 2008	2.9, 3.5, 3.6
94	Structural Deformations by Method of Pictorial Integration	August 1946, July 1971, December 1989	N/A
96	Cylindrical Ducts and Tanks Under External Crushing Pressure	August 1947, October 1951, December 1989	10.5
100a	Allowable Compression Stress in Round Tubing	October 1998, May 1999	10.6
101c	Allowable Bending Stress in Round Tubing	January 1985, June 1988, December 1989	10.6
102a	Allowable Torsion Stress in Round Tubing	October 1998, April 1998	10.6
103a	Strain Analysis of Dissimilar Material Components in Tension	October 1998	N/A
106f	Accepted Methods of Stress Analysis	March 1976	2.3, 5-10
109c	Low Alloy Steel, 220 ksi and Higher	January 1987	N/A
110	Stiffener Crippling Stresses	January 1985, October 1998	8.3
111	Strength of Laminated Aluminum Columns	June 1988, December 1989	N/A
112e	Computer Programs for the Solution of Structural Problems	March 1976	N/A
113	Structural Requirements for High Pressure & High Temperature Air Systems	July 1955, December 1989	12.2

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117	Maximum Stiffener Spacing for Shear Webs Subject to Continuous Vibration	July 1956, December 1989	15.5
118a	Analysis of Circular Shell-Supported Frames	May 1960, December 1989	9.2
119	Fatigue Considerations for Parts Subject to Frequent Applications of Near-Limit Loads And Parts Designed by Modulus of Rupture	January 1985, June 1988, October 1997	N/A
120a	Preparation of Stress Analysis Reports	October 1973, December 1989	2.10
123a	Prolongations	March 2008	2.9, 3.5, 3.6
125	Dynamic Effects in Structural Loading	January 1985, December 1989	15.2
126a	Prediction of Crippling Strength	September 1969, July 1975, December 1989, January 1992	8.3
127	Cylindrical Pressure Vessel Analysis	December 1964, December 1989	10.5
128	Required Tie Down Strength of Compression & Shear Panel Structure	December 1964, December 1989	N/A
129a	Welding	January 1985, December 1989, November 1992, April 1995, October 1998, May 1999, July 2000, July 2005	5.7
130a	Prevention of Corrosion	April 1995, October 1998, May 1999, July 2000	3.4
131	Structural Design for Thermal Effects	November 1968, December 1989	14
132b	Deflection Effects on Component Stress Analysis	January 1985, December 1989	2.3
133	Structural Adhesives	July 1967, February 1969, December 1989	3.8
134a	Metrication	January 1985	N/A
135	Classification of Structure	November 1992	2.2
136	Dimensions At Critical Locations	November 1992	2.6
137	Forging or Casting Flash in Critical Areas	March 2008	3.5, 3.6
138	Super Plastic Formed Parts	December 1989	N/A
139	Errata in Standard Texts	January 1987, May 1999, July 2000	2.11