12 Mechanisms

The purpose of this chapter is to provide guidance regarding stress analysis of mechanisms. Currently it refers the analyst to the appropriate sections of the General Dynamics Structural Analysis Manual (GD-SAM). Additional criteria and guidance can generally be found in program specific documents.

12.1 References

12.0-1 anon., *Lockheed Martin Engineering Stress Memo Manual*, Lockheed Martin Aeronautical Systems, Marietta, GA (October 1998 Release; April 2002 Revision).

12.0-2 anon., *Structures Analysis Manual, Volume 1 and Volume 2*, General Dynamics Convair and Space Structures Divisions (1988).

12.0-3 Staff, *LTV Structures Manual*, LTV Aircraft Products Group, Grand Prairie, TX (June 1989 Revision).

12.0-4 anon., "Metallic Materials And Elements For Aerospace Vehicle Structures," *MIL-HDBK-5*[1], Battelle Memorial Inst., Secretariat (2001).

12.2 Springs

Refer to Program-specific and customer-generated guidance; and the GD Structural Analysis Manual, Section 12, Reference 12.0-2.

12.3 Bearings

Refer to Program-specific and customer-generated guidance; and the GD Structural Analysis Manual, Section 21.1, Reference 12.0-2.

12.4 Gears

Refer to Program-specific and customer-generated guidance; and the GD Structural Analysis Manual, Section 21.2, Reference 12.0-2.

12.5 Actuators

Refer to Program-specific and customer-generated guidance; and the GD Structural Analysis Manual, Section 21.3, Reference 12.0-2.

12.6 Hooks

This section reserved for future use.

12.7 Latches

This section reserved for future use.

[1] In 2003, MIL-HDBK-5 was superseded by the Metallic Materials Properties Development and Standardization (MMPDS) Handbook, Battelle Memorial Institute, Secreteriat (2003).