



Space System Simulation

A trusted space system solution provider

MAYA provides solutions to over 70% of the world's top space companies.

MAYA provides the space industry with simulation solutions in all stages of the design process. Our solutions minimize time-consuming testing procedures while ensuring the highest possible product quality.

Structural and Thermal Design

- Concept Design
- Requirements and Specifications
- Performance and Life Cycle Estimates
- Project Management
- Design Review and Verification (incl. PDR, CDR)
- System and Component Structural/Thermal Design

Thermal Analysis

- Simulation of Orbital Environments
- Articulating Structures
- Electronics Systems
- Thermal Protection Systems
- TVAC Data Correlation
- Interplanetary Mission Simulation
- Specialized Code Development
- Real-Time Simulation

Structural and Dynamics Analysis

- Acoustic, Random, Transient and Harmonic Events
- Composite Failure
- Thermo-Elastic Distortion
- Optimization
- Launch Vehicle Coupled Loads
- Superelements
- Durability
- Modal Test Correlation and Model Updating
- DMAP Creation

Testing and Validation

- Test Planning and Support
- Structural
 - Sensor and Exciter Optimization
 - Vibration
 - Acoustic
 - Static
 - Pyroshock
 - Modal
- Thermal
 - Cycle
 - Vacuum
 - Balance
 - Burn-In





CAE/CAD/CAM Software and Services for PLM

Software

- MAYA-authored CAE solutions
 - NX Space Systems Thermal
 - NX Electronic Systems Cooling
 - NX Laminate Composites
 - NX FE Model Correlation
 - NX FE Model Update
 - NX Advanced Durability
 - Femap Structural Analysis Toolkit
 - Femap Thermal/Flow
- Siemens PLM Software
 - NX
 - NX Nastran
 - I-deas
 - Femap
 - Teamcenter
- NX integration tools for external FE solvers
 - MSC Nastran
 - Abaqus
 - Ansys

Training and implementation

- Beginner to advanced
- Multi-physics analysis training
- Siemens PLM CAE training: NX, Femap, I-deas
- Worldwide on-site training
- Web-based training

Consulting

- Thermal, structural, CFD and laminates analysis
- Finite element modelling and optimization
- Design recommendations
- Testing services

A part of space system simulation history

For 30 years, MAYA has provided software, consulting, and training solutions for over 100 North American and international space missions.

About us

MAYA is a leading provider of simulation software and technical services for digital product development. As a development partner for Siemens PLM Solutions, MAYA's solutions are deployed worldwide and across a wide array of industries.

