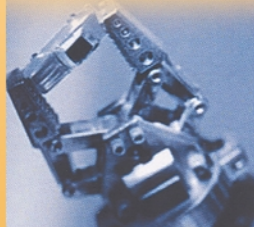


# DYNAMICS AND CONTROLS ANALYSIS

## (DEFINITION)

Techniques used to determine a quantity, such as speed, temperature or force applied to behave in a desirable way over time.

Linear and non-linear modeling of dynamic systems, analyses of dynamic behaviors and design of controllers for assuring satisfactory and optimal performance.



**B**astion produces complete and accurate controls and dynamics assessments, identifies and quantifies risks, and provides recommended controls and abatement measures. Bastion's expertise includes developing multi-body (rigid and flexible dynamics) models of robotic systems operations and large-scale structures.

- Control System/Structure Interactions
- Hydraulic/Pneumatic Control System Analysis
- Hydraulic Control System Analysis
- Multi-physics Control System Analysis
- Thermal Management Systems

Our skilled engineering team prepares computational models for Dynamic Analysis such as Static, Transient and Frequency analyses. We also perform control/structure interaction analysis for non-linear and linear structures, and confirm verification and readiness of control software.

## TOOLS

- MATLAB
- SIMULINK
- NASTRAN
- Proprietary Software





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