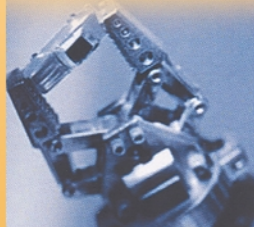


DYNAMICS AND CONTROLS ANALYSIS

(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.



Bastion 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





BASTION TECHNOLOGIES

Suite 330
Houston, Texas 77058
(281) 283-9330
Fax: (281) 283-9333
www.bastiontechnologies.com

ISO 9001:2000
registered company

