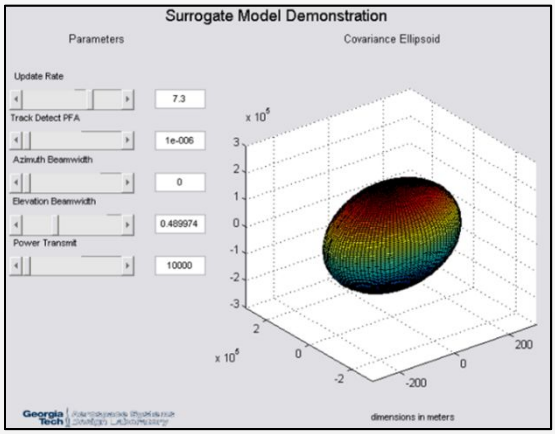
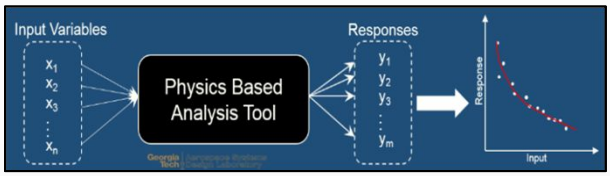
Surrogate Modeling

- Enables the use of real-time probabilistic analysis techniques that were previously prohibited by the long runtimes of underlying M&S tools.
- Provides a statistical representation of a complex code or simulation.
- Utilizes the underlying physics-based tools along with a Design of Experiments (DoE) to efficiently map the design space.





- Supports the integration of discipline-dependent and often organization-dependent analysis codes.
- Represents an efficient way to lessen the time required for an integrated parametric environment to run.
- Yields insight into the relationships between design variables (inputs) and responses (outputs) hence facilitating concept exploration.
- Provides the analyst the ability to execute data calls nearly instantaneously to the level of fidelity of the underlying M&S tools used to create them.

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